



MINISTRY OF HUMAN RESOURCES

# MASCO

Malaysia Standard  
Classification of Occupations | 2013

# MASCO

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Classification of Occupations | 2013



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The tasks and responsibilities described in these classifications in the major group, sub-major group, minor group or unit group are not at all times and need not at all times be executed in full by all occupations listed under the respective groups.

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**Ministry of Human Resources**

**Human Resource Policy Division**

Level 7, Block D3, Complex D

Federal Government Administrative Centre

62530 PUTRAJAYA

Tel : +603-8000 8000

Fax : +603-8889 2377

E-mail : [ksm@mohr.gov.my](mailto:ksm@mohr.gov.my)

<http://www.mohr.gov.my>

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# CONTENT

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4	MESSAGE FROM THE MINISTER
5	FOREWORD FROM THE SECRETARY GENERAL
6	ACKNOWLEDGMENT
8	INTRODUCTION
10	POLICIES AND PRINCIPLES OF CLASSIFICATIONS
12	STRUCTURE OF CLASSIFICATIONS
14	NOTES ON CERTAIN OCCUPATIONS
15	CHALLENGES IN DEVELOPING MASCO 2013
16	SUMMARY OF MAJOR GROUPS
23	MAJOR GROUP 1                      MANAGERS
57	MAJOR GROUP 2                      PROFESSIONALS
139	MAJOR GROUP 3                      TECHNICIANS AND ASSOCIATE PROFESSIONALS
197	MAJOR GROUP 4                      CLERICAL SUPPORT WORKERS
219	MAJOR GROUP 5                      SERVICE AND SALES WORKERS
247	MAJOR GROUP 6                      SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS
265	MAJOR GROUP 7                      CRAFT AND RELATED TRADES WORKERS
305	MAJOR GROUP 8                      PLANT AND MACHINE OPERATORS AND ASSEMBLERS
333	MAJOR GROUP 9                      ELEMENTARY OCCUPATIONS
355	MAJOR GROUP 0                      ARMED FORCES
	APPENDICES
363	• INDEX – OCCUPATIONS ACCORDING TO SYSTEMATIC ORDER
471	• INDEX – OCCUPATIONS ACCORDING TO ALPHABETICAL ORDER
561	• MASCO CHART
597	• INTERESTS AND CAREERS
602	REFERENCES



## MESSAGE

THE MINISTER OF HUMAN RESOURCES

*The passage of time and the rapid pace of technological changes are the challenges that drive change. The goal of becoming a developed and high income nation, which is the essence of the New Economic Model, requires the transformation of the country's employment structure. In this era of globalisation and liberalisation, the manpower needs of industries change very rapidly. The Ministry of Human Resources has the role of analysing current and future trends of industries to ensure that the workforce being produced is able to meet labour market needs in a systematic manner.*

*Thus, the publication of the Malaysia Standard Classification of Occupations (MASCO) 2013 is expected to serve as a dynamic, comprehensive, high quality and reliable platform for the dissemination of employment information to reflect the changes and development in the employment structure of the country. It has also been designed to be a reference to both the public and private sectors for planning organisational development strategies and to achieve the country's goal of becoming a developed nation by 2020.*

*The globalisation revolution and dynamism of information and communications technology have triggered a change in the information delivery system. Therefore, it is my hope that MASCO could be adapted to the MASCO system application in order to provide information about jobs and description of tasks in a more interactive and efficient manner. This would help increase the efficiency of labour market information and subsequently develop an inventory of human resources in the country.*

*I wish to convey my heartfelt appreciation and congratulations to everyone involved, whether directly or indirectly, in the publication of the Malaysia Standard Classification of Occupations (MASCO) 2013.*

**DATO' SRI RICHARD RIOT ANAK JAEM**





# FOREWORD

SECRETARY GENERAL OF THE MINISTRY  
OF HUMAN RESOURCES

*As a leader in human resources, the Ministry of Human Resources is responsible for updating and developing the Malaysia Standard Classification of Occupations (MASCO) 2013. MASCO, which serves as the national benchmark for the classification of occupations developed based on the International Standard Classification of Occupations (ISCO), reflects the current economic scenario and complexity of economic activities that transform work methods and processes, areas of specialisation, and the various tasks and skills in industries.*

*MASCO 2013 encoding change from 5-digit to 6 digits. This change allows a total of 48,000 job title to be listed which in line with the transformation of the organizational structure, the pace of technology, and the development of the global economy that creates new jobs in the market.*

*It is hoped that MASCO will be developed, analyzed, and updated regularly. Small publication or brief information should also be produced to facilitate the users to get instant and up to date information.*

*Hopefully this book will serve as a guide and reference to the public and private sectors, especially policy makers, educational and training institutions, researchers, career planners, investors and employers as well as employees in coordinating job descriptions and in planning, formulating and implementing human resource management policies.*

*I would like to express my appreciation and congratulations to all for the contributions to the completion of this publication. Special thanks to the working group of MASCO 2013 for their efforts in developing and publishing this book.*

**DATO' SARIPUDDIN KASIM**

# ACKNOWLEDGMENT

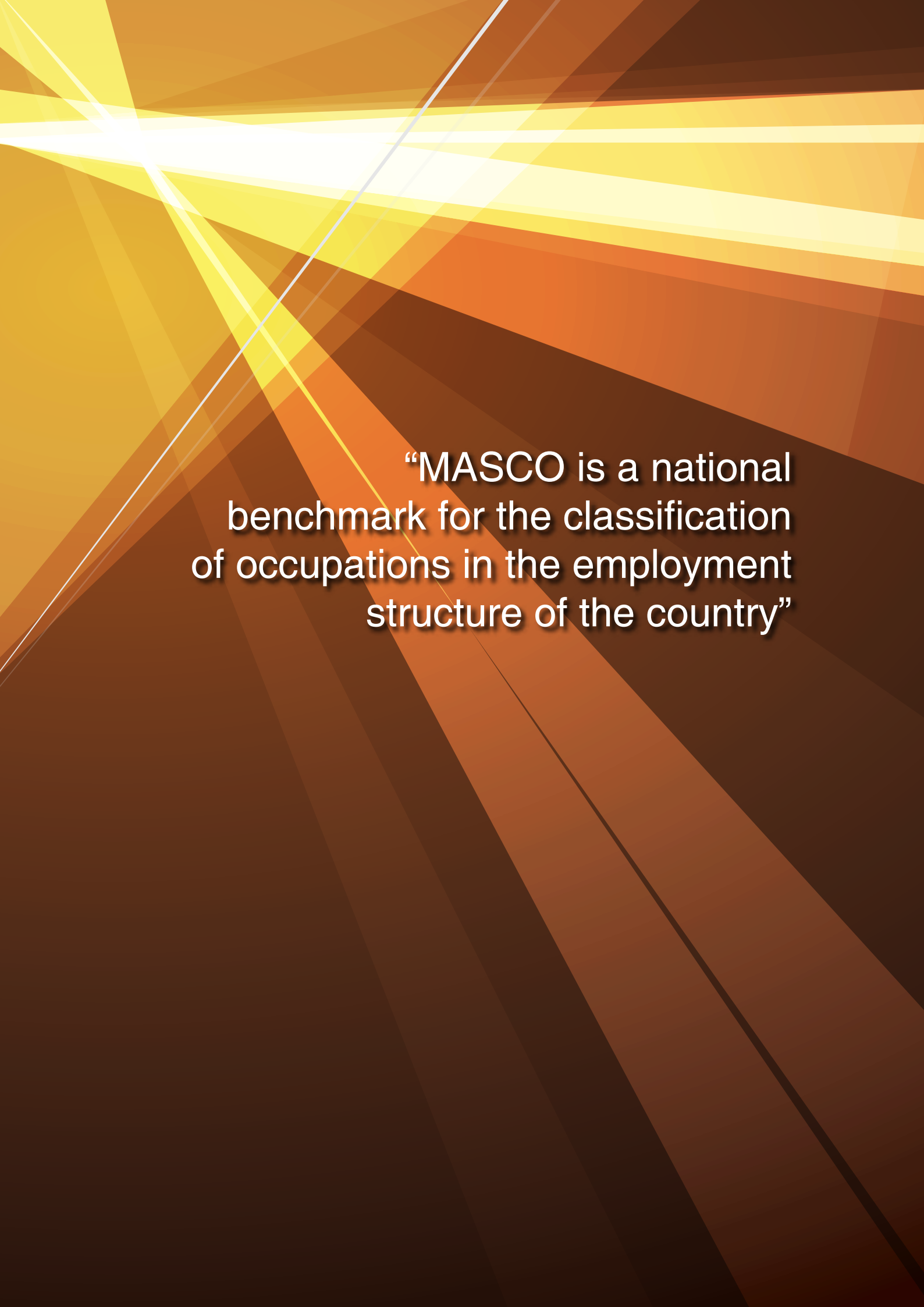
*The Malaysia Standard Classification of Occupations (MASCO) 2013 was developed by the Ministry of Human Resources (MoHR) under the advice and leadership of YBhg Dato' Saripuddin Kasim, Secretary General (MoHR), and Mr Mohd Sahar Darusman, Deputy Secretary-General (Policy and International) (MoHR), as well as the task force chaired by Mr Kua Abun, Secretary of Policy Division (MoHR), which is responsible for the overall coordination work, including the final editing. Thanks are also due to Mr David Hunter from the International Labour Organisation (ILO), Geneva, for his guidance and advice on job classifications based on the International Standard Classification of Occupations (ISCO).*

*MASCO 2013 was successfully completed through the commitment of several individuals. They are Mr Rosli Bidin, Ms Norfakhri Zulkawi, Ms Nor Hasnah Badroddin, Mr Mustaffa Md Ali and Ms Norhaili Kamsan who heads the development work, editing, compiling, analysing and updating of occupational titles.*

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*Thank you to the Department of Labour which provided new job title as posted via the JobsMalaysia portal. Special mention goes to the top management of the Department of Statistics, Public Service Commission, Education Service Commission, Public Service Department, Malaysian Investment Development Authority, Multimedia Development Corporation and Malaysian Armed Forces for their support and guidance.*

*A heartfelt thank you and congratulations go to all the individuals, organisations, professional bodies, unions and others as well as to the relevant ministries and departments for their comments and contributions to the completion of this publication. Last but not least, thanks to the many individuals who were directly involved in the early stages of drafting the MASCO.*



“MASCO is a national  
benchmark for the classification  
of occupations in the employment  
structure of the country”

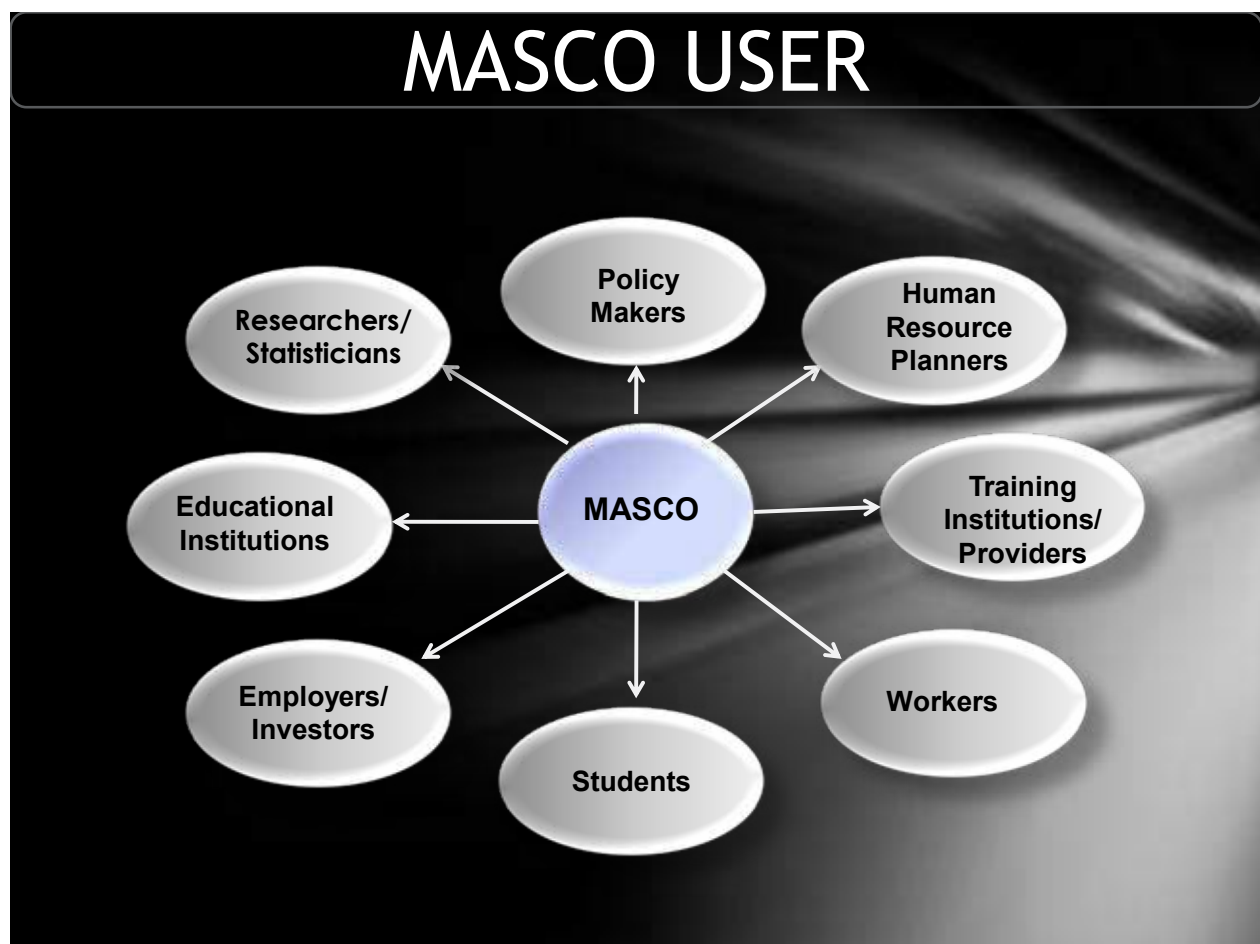


# INTRODUCTION

The Malaysia Standard Classification of Occupations (MASCO) is a national benchmark for the classification of occupations in the employment structure of the country, which has been developed in accordance with International Standard Classification of Occupations (ISCO) with changes and modifications to meet the needs of the country.

MASCO lists down the descriptions and tasks as well as the code for each position listed. It contains ten categories of major groups, namely Major Group 1: Managers; Major Group 2: Professionals; Major Group 3: Technicians and Associate Professionals; Major Group 4: Clerical Support Workers; Major Group 5: Service and Sales Workers; Group 6: Skilled Agricultural, Forestry, Livestock and Fishery Workers; Major Group 7: Craft and Related Trades Workers; Major Group 8: Plant and Machine Operators and Assemblers; Major Group 9: Elementary Occupations; and Major Group 0: Armed Forces.

MASCO provides the employment structures and trends of the current market which can help generate a human resource inventory in the country to serve as reference to both the public and private sectors in planning development strategies in accordance with international standards.



Target Group	Benefits
<b>Policy Makers/ Human Resource Planners</b>	<ul style="list-style-type: none"> <li>• Planning, formulating and implementing policies on human resource management</li> <li>• Planning the structure of the nation's workforce</li> <li>• Basis for the enforcement of labour laws</li> <li>• Basis for levy determination</li> <li>• Implementation of policies to control brain drain and brain gain</li> <li>• Better understanding of industrial development, talent and training needs</li> <li>• Improving the quality of data collection in accordance with international standards</li> <li>• Identifying job categories which require improved skill levels</li> </ul>
<b>Researchers/ Statisticians</b>	<ul style="list-style-type: none"> <li>• Implementing survey regarding human resources.</li> <li>• Researching/ analysing (Population and Housing Census, the Labour Force Survey, Household Income, National Employment Return etc.)</li> <li>• Improve the quality of data collection in accordance with international standards</li> </ul>
<b>Educational Institutions/ Training Institutions/ Providers</b>	<ul style="list-style-type: none"> <li>• Shaping the manpower requirements in the industry</li> <li>• Being more objective when developing the curriculum</li> <li>• Determining the basic knowledge required in a particular occupational group</li> <li>• Developing educational and training syllabuses</li> </ul>
<b>Employers/ Investors</b>	<ul style="list-style-type: none"> <li>• Standardising job descriptions</li> <li>• Identifying core and elective skills</li> <li>• Providing a clear understanding of a particular job</li> <li>• Determining the approximate wage for each type of work</li> <li>• Determining the organisational hierarchy</li> <li>• Planning for the employment needs of the labour market</li> </ul>
<b>Workers</b>	<ul style="list-style-type: none"> <li>• Understanding the nature and scope of employment</li> <li>• Understanding the organisational hierarchy</li> <li>• Understanding the basic salary in the market and expected skills</li> </ul>
<b>Students</b>	<ul style="list-style-type: none"> <li>• References on career determination</li> <li>• Choosing the right courses or subjects of study</li> <li>• Knowledge of skill levels and competencies required</li> </ul>

# POLICIES AND PRINCIPLES OF CLASSIFICATIONS

The two key concepts used in the classification of occupations are the concept of job and the concept of skill.

A job is defined as a set of tasks and duties performed by a person. A set of jobs whose main tasks and obligations are characterised by a high degree of similarity is referred to as an occupation. This means that persons performing duties of a similar nature are considered to be doing the same job and are therefore classified under the same occupational group, regardless of the level of authority, responsibility or work experience. For example, a chief civil engineer is classified under the same group as a civil engineer (unit group 2142), and a chief accountant is classified under the same group as an accountant (unit group 2411).

Skill is defined as the ability to carry out the tasks and duties of a given job. For the purposes of MASCO 2013, two dimensions of skill are used as follows:

- 1) Skill level is a function of the complexity and range of tasks and duties to be performed in an occupation. Creativity, talent and artistry can also be defined as skills; and
- 2) Skill specialisation is determined by the field of knowledge required, the tools and machinery used, the materials worked on or with, the technology and software used, and the kinds of goods and services produced and not by manual labour alone.

The operational definitions of the four main skill levels are summarised as follows:

Skill Level	Education Level
First	Primary education
Second	Secondary or post-secondary education; Malaysian Skills Certificate (SKM) Levels 1-3
Third	Tertiary education leading to an award not equivalent to a first degree; Malaysian Skills Certificate (SKM) Level 4 or Malaysian Skills Diploma (DKM) Level 4
Fourth	Tertiary education leading to a university degree or postgraduate degree; Malaysian Skills Advanced Diploma (DLKM) Levels 5-8



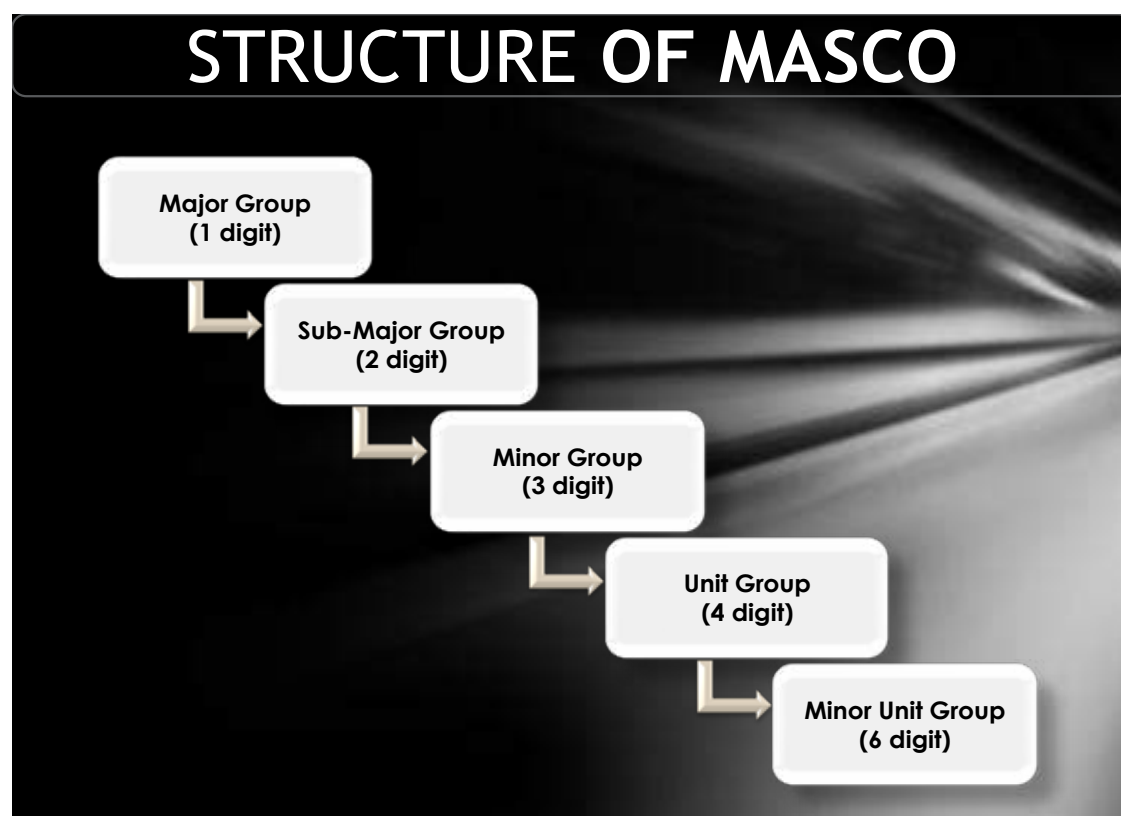
Normally, Major Groups 2 to 9 take into account both education and skill levels in determining their classification. However, groups 1 and 0 are not bound by the education level.

Major Group	Education Level	Skill Level
<b>2 Professionals</b>	<b>Tertiary education leading to a university degree or postgraduate degree; Malaysian Skill Advanced Diploma (DLKM) Levels 5-8</b>	<b>Fourth</b>
<b>3 Technicians and Associate Professionals</b>	<b>Tertiary education leading to an award not equivalent to a first degree; Malaysian Skill Certificate (SKM) Level 4 or Malaysian Skill Diploma (DKM) Level 4</b>	<b>Third</b>
<b>4 Clerical Support Workers</b> <b>5 Service and Sales Workers</b> <b>6 Skilled Agricultural, Forestry, Livestock and Fishery Workers</b> <b>7 Craft and Related Trades Workers</b> <b>8 Plant and Machine Operators and Assemblers</b>	<b>Secondary or post-secondary education; Malaysian Skill Certificate (SKM) Levels 1-3</b>	<b>Second</b>
<b>9 Elementary Occupations</b>	<b>Primary education</b>	<b>First</b>

The use of the education categories to define the four skill levels does not mean that the skills necessary to perform the tasks and duties of a given occupation can be acquired only through formal education. The skills may also be acquired through informal training and experience. Therefore, when classifying an occupation, for example engineer, it does not mean that the post can be filled only by a registered engineer, although the activities may be similar to those undertaken by the said engineer. In addition, the focus is on the skills needed to carry out the tasks and duties and not on whether a worker having a particular occupation is more or less skilled than another worker in the same occupation.

# STRUCTURE OF CLASSIFICATIONS

The structure of MASCO 2013 features 5 levels of classification. The first level is called the Major Group, which is represented by a one-digit code. The second and subsequent levels are called the Sub-Major Group, Minor Group, Unit Group and Minor Unit Group, which are represented by 2-digit, 3-digit, 4-digit and 6-digit codes respectively.



For example, the coding details for Unit Group 2151: Electrical Engineers are as follows:

Group	Title	Code
<b>Major Group</b>	Professionals	2
<b>Sub-Major Group</b>	Science and Engineering Professionals	21
<b>Minor Group</b>	Electrotechnology Engineers	215
<b>Unit Group</b>	Electrical Engineers	2151
<b>Small Unit Group</b>	Engineer (Electrical), Grade J41	2151-01
	Assistant Engineer (Electrical) J29	2151-02
	Electrical Engineering Technologist	2151-03
	Electrical Engineer	2151-04

# Major Differences in MASCO 2013

MASCO 2013 has been updated in line with new technological advances and global economic developments. Among the main changes introduced in MASCO 2013 are:

- a) change of code from 5-digit to 6-digit at the Minor Unit Group level which allows an expansion of up to 99 occupational codes;
- b) change of code for Unit Groups ending with xxx0 to xxx1 to expand and accommodate all future occupational groups and task descriptions in the market; and
- c) re-structuring, re-organising, re-aligning and re-rating as well as developing and creating new occupational groups.

MASCO 2013 provides the following number of occupational titles for each group:

Major Group	Sub-Major Group	Minor Group	Unit Group	Minor Unit Group
1 Managers	6	11	38	457
2 Professionals	9	35	119	1889
3 Technicians and Associate Professionals	7	23	90	1106
4 Clerical Support Workers	4	8	29	407
5 Service and Sales Workers	4	13	41	342
6 Skilled Agricultural, Forestry, Livestock and Fishery Workers	3	9	21	188
7 Craft and Related Trades Workers	6	14	67	793
8 Plant and Machine Operators and Assemblers	3	15	43	770
9 Elementary Occupations	6	11	35	316
0 Armed Forces	3	7	7	98
10	51	146	490	6,366

In the above classification, all occupations are categorised into **ten (10)** major groups (1-digit). Subsequently, the major groups are divided into **51** sub-major groups (2-digit) which comprise **146** minor groups (3-digit). The minor groups are further divided into **490** unit groups (4-digit) and the unit groups are further divided into **6,366** minor unit groups (6-digit)



# NOTES ON CERTAIN OCCUPATIONS

Supervisory occupations, as well as foremen, which are mainly concerned with professional and technical quality control of work done, are classified together with the jobs whose tasks they supervise. However, if the main tasks and duties consist of planning, organising and directing the daily work activities of a group of subordinate workers, the occupation should be considered as a managerial occupation and classified in Major Group 1: Managers. Only in certain organisations, such as in large companies with many levels of decision-making, where between the supervisor and the operators there is at least one other supervisory level, and at the same time there is one or more levels between the supervisor and the management, supervisors may be grouped in Major Group 3: Technicians and Associate Professionals.

Working proprietors are not listed as a special group but classified according to their activities. A shop owner who spends most of the time behind the counter and helping the customers should be classified under Sub-Major Group 52: Sales Workers. If, however, his/ her activities consist mainly of managing resources, finance and personnel, he/ she should be classified under Sub-Major Group 12: Administrative and Commercial Managers.

Occupations mainly concerned with on-the-job training through continuous observation, assessment and guidance are classified with the occupations whose workers they instruct, in a particular trade, craft or machine-operating task.

Apprentices and trainees are classified according to the tasks and duties actually performed, and not according to their future occupation.

For public sector positions, the principles of classification are relaxed to suit the needs of service grading. Job titles with prefixes refer to posts in the public sector, including positions in statutory bodies and local authorities (for example: Civil Engineer, Grade J41). Job titles without prefixes (except the military under group 0) refer to posts in the private sector (for example: Civil Engineer). The difference in job titles in the public and private sectors does not distinguish the tasks under the code being referred.

For the position of the public sector, which is listed grade refers to the grade of appointment.

There are specific positions in the public sector (UiTM Lecturer and Cadet Officer) where the appointments were gazetted in accordance with the requirements of the relevant parties. In addition, there are also special designations (such as mahout) specific to elephant conservation.

There is also repetition of the same position due to the separation of employment by gender (such as steward and stewardess).

# Challenges in Developing MASCO 2013



Difficulty in putting job titles that use names or terminology with identical meaning (for example: Assistant, Senior, Junior, Executive and Chief)



Adapting the names of traditional job titles or local names (for example: *Kapitan*, Head of the Household/Head of the Longhouse, Headman/Village Chief, *Dang Pawara*, Sergeant-at-Arms (Meeting), Sergeant-at-Arms (Parliament))



Coordinating or adapting names that are popular or which serve to promote or boost morale from the job title created (for example: Sales/Product Ambassador, Concierge, Customer Service and Global Support Service Executive, IT Butler, Barista)



Principles of classification had to be loosened to the requirements of JobsMalaysia's report generation system to facilitate job application and job matching



Repetition of positions to meet the staffing needs of the public sector which uses the same name by placing a grade to the position to distinguish them from those in the private sector



The need to meet customer needs in line with the implementation of JobsMalaysia for the purpose of job selection and application in the public and private sectors (for example: Civil Engineer Grade J41 is used by the public sector and Civil Engineer is used by the private sector)



Occupations with similar duties and tasks but called by different names (for example: Vacuum and Blow Cleaning jobs)



Adapting the nuances in meaning of positions in certain major groups, whereby different spelling is used to differentiate seniority of positions (such as *Kepten* and *Kapten* in the Armed Forces)



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# SUMMARY OF MAJOR GROUPS

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## **1 MANAGERS**

Devise, analyse, formulate, direct and advise on government policy, and make, amend and repeal laws, public rules and regulations, and represent and act on behalf of the government, and oversee the interpretation and implementation of policies and government legislation, or carry out similar tasks on behalf of special interest organisations, or plan, organise, lead, control and coordinate the policies and activities of enterprises, organisations, departments or the internal section

## **2 PROFESSIONALS**

Increase the existing stock of knowledge, apply scientific or artistic concepts and theories, teach about the foregoing in a systematic manner, or engage in any combination of these three activities

## **3 TECHNICIANS AND ASSOCIATE PROFESSIONALS**

Perform technical and related tasks connected with research and the application of scientific or artistic concepts and operational methods, and government or business regulations

## **4 CLERICAL SUPPORT WORKERS**

Record, organise, store and retrieve related information and perform clerical duties especially in connection with administrative operations, handling of money, travel arrangements and requests for information and appointments

## **5 SERVICE AND SALES WORKERS**

Provide personal services related to travel, housekeeping, catering, personal care, or protection against fire and unlawful acts, or demonstrate and sell goods in wholesale or retail shops and similar establishments as well as at stalls and markets

## **6 SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS**

Grow and harvest field or tree and shrub crops, gather wild fruit, herbs and vegetables, breed, tend or hunt animals, produce a variety of animal husbandry products, cultivate, conserve and gather forest products, breed or catch fish and cultivate or gather other forms of aquatic life

## **7 CRAFT AND RELATED TRADES WORKERS**

Apply their specific knowledge and skills in the fields of mining and construction, metal forming, and erect metal structures, make, fit, maintain and repair machinery, equipment or tools, carry out printing work as well as produce or process foodstuffs, textiles, or wooden, metal and other articles including handicraft goods

## **8 PLANT AND MACHINE OPERATORS AND ASSEMBLERS**

Operate and monitor industrial and agricultural machinery and equipment, drive and operate trains, motor vehicles and mobile machinery and equipment, or assemble product component parts according to strict specifications and procedures

## **9 ELEMENTARY WORKERS**

Perform simple, routine and non-systematic tasks which mainly require the use of handheld tools or with the assistance of simple machines, and in some cases considerable physical effort

## **0 ARMED FORCES**

The Malaysian Armed Forces (MAF) is divided into three branches, namely the Malaysian Army (MA), Royal Malaysian Navy (RMN) and Royal Malaysian Air Force (RMAF). The main role of the MAF is to defend the sovereignty and territorial integrity of the country against external threats whereas its secondary role is to assist the public authorities in restoring and maintaining public order, enforcing maritime law, defending against internal threats, assisting in disaster relief and national development operations as well as providing support in peacekeeping efforts under the banner of the United Nations (UN)





# 1

# MANAGERS



## **11 CHIEF EXECUTIVES, SENIOR OFFICIALS AND LEGISLATORS**

### **111 LEGISLATORS AND SENIOR OFFICIALS**

- 1111 Legislators
- 1112 Senior Government Officials
- 1113 Traditional Chiefs and Heads of Village
- 1114 Senior Officials of Special-Interest Organizations

### **112 MANAGING DIRECTORS AND CHIEF EXECUTIVES**

- 1121 Managing Directors and Chief Executives

## **12 ADMINISTRATIVE AND COMMERCIAL MANAGERS**

### **121 BUSINESS SERVICES AND ADMINISTRATION MANAGERS**

- 1211 Finance Managers
- 1212 Human Resource Managers
- 1213 Policy and Planning Managers
- 1214 Business Services Managers
- 1215 Administrative Managers
- 1219 Business Services and Administration Managers Not Elsewhere Classified

### **122 SALES, MARKETING AND DEVELOPMENT MANAGERS**

- 1221 Sales and Marketing Managers
- 1222 Advertising and Public Relations Managers
- 1223 Research and Development Managers

## **13 PRODUCTION AND MANUFACTURING MANAGERS**

### **131 PRODUCTION MANAGERS**

- 1311 Agricultural, Forestry and Livestock Production Managers
- 1312 Aquaculture and Fisheries Production Managers

### **132 MANUFACTURING, MINING, CONSTRUCTION, AND DISTRIBUTION MANAGERS**

- 1321 Manufacturing Managers
- 1322 Mining Managers
- 1323 Construction Managers
- 1324 Supply, Distribution and Related Managers



## **14 HOSPITALITY, RETAIL AND OTHER SERVICES MANAGERS**

### **141 HOTEL AND RESTAURANT MANAGERS**

- 1411 Hotel Managers
- 1412 Restaurant Managers

### **142 RETAIL AND WHOLESALE TRADE MANAGERS**

- 1421 Retail and Wholesale Trade Managers

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## **15 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS**

### **151 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS**

- 1511 Information and Communications Technology Managers

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## **16 SERVICES MANAGERS**

### **161 PROFESSIONAL SERVICES MANAGERS**

- 1611 Child Care Services Managers
- 1612 Health Services Managers
- 1613 Aged Care Services Managers
- 1614 Social Welfare Managers
- 1615 Education Managers
- 1616 Financial and Insurance Services Branch Managers
- 1617 Legal Managers
- 1618 Property Managers
- 1619 Professional Services Managers Not Elsewhere Classified

### **162 OTHER SERVICES MANAGERS**

- 1621 Sports and Recreation Centre Managers
- 1622 Personal Care, Cleaning and Related Services Managers
- 1623 Security Managers
- 1624 Cultural Centre, Museum and Library Managers
- 1629 Other Services Managers Not Elsewhere Classified

SUB-MAJOR GROUP

11

12

13

14

15

16

- 11. CHIEF EXECUTIVES, SENIOR OFFICIALS AND LEGISLATORS
- 12. ADMINISTRATIVE AND COMMERCIAL MANAGERS
- 13. PRODUCTION AND MANUFACTURING MANAGERS
- 14. HOSPITALITY, RETAIL AND OTHER SERVICES MANAGERS
- 15. INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS
- 16. SERVICES MANAGERS

## Description

Devise, analyse, formulate, direct and advise on government policy, and make, amend and repeal laws, public rules and regulations, and represent and act on behalf of the government, and oversee the interpretation and implementation of policies and government legislation, or carry out similar tasks on behalf of special interest organisations, or plan, organise, lead, control and coordinate the policies and activities of enterprises, organisations, departments or the internal section.

## Skill Level

Reference to the skill level is open and not bound to education level. However, employment in this major group primarily requires skills at the fifth to eighth levels.

### SUB-MAJOR 11 **CHIEF EXECUTIVES, SENIOR OFFICIALS AND LEGISLATORS**

**Chief Executives, Senior Officials and Legislators** devise, analyse, formulate, direct and advise on government policy, and make, amend and repeal laws, public rules and regulations, and represent and act on behalf of the government, and oversee the interpretation and implementation of policies and government legislation, or carry out similar tasks on behalf of special interest organisations.

#### MINOR GROUP 111 **LEGISLATORS AND SENIOR OFFICIALS**

**Legislators and Senior Officials** devise, analyse, formulate and direct the implementation of policies of the nation, state, regional government, local communities and special interest organisations. They make, ratify, amend or repeal laws, rules and regulations, and plan, organise, direct, control and evaluate the activities of entire departments and agencies, traditional societies and special interest organisations.

#### UNIT GROUP 1111 **LEGISLATORS**

**Legislators** devise, analyse, formulate and direct policies of the nation, state, regional or local government and international government agencies, and make, ratify, amend or repeal laws, public rules and regulations.

#### Tasks include:

- a) presiding over or participating in the proceedings of legislative bodies and administrative councils of national, state, regional or local governments or legislative assemblies;
- b) determining, formulating and directing policies of national, state, regional or local governments;
- c) making, ratifying, amending or repealing laws, public rules and regulations within a statutory or constitutional framework;
- d) serving on government administrative boards or official committees;
- e) investigating matters of concern to the public and promoting the interests of the constituencies which they represent;
- f) attending community functions and meetings to provide service to the community, understanding public opinion and providing information on government plans;
- g) negotiating with other legislators and representatives of interest groups in order to reconcile differing interests, and to create policies and agreements;



- h) as government personnel: directing senior administrators and officials of government departments and agencies in the interpretation and implementation of government policies;
- i) performing related tasks; and
- j) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 1111](#))

1111-01	Prime Minister
1111-02	Deputy Prime Minister
1111-03	Minister
1111-04	Deputy Minister

#### UNIT GROUP 1112 SENIOR GOVERNMENT OFFICIALS

**Senior Government Officials** advise governments on policy matters, oversee the interpretation and implementation of government policies and legislation by government departments and agencies, represent their country abroad and act on its behalf, or carry out similar tasks in intergovernmental organisations. They plan, organise, direct, control and evaluate the overall activities of municipal or local, regional and national government departments, councils, agencies or commissions in accordance with legislation and policies established by government and legislative bodies.

**Tasks include:**

- a) advising federal, state, regional or local governments on policy matters;
- b) advising on the preparation of government budgets, laws and regulations, including amendments;
- c) formulating or approving and evaluating programmes and procedures for implementation by the government;
- d) recommending, reviewing, evaluating and approving documents and reports submitted by middle managers and senior staff members;
- e) ensuring appropriate systems and procedures are developed and implemented to provide budgetary control;
- f) making presentations to legislative and other government committees on policy planning or budget allocations;
- g) performing related tasks; and
- h) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 1112](#))

1112-01	Keeper of the Rulers' Seal
1112-02	Chief Secretary to the Government
1112-03	Director-General of Public Service
1112-04	Attorney General

#### UNIT GROUP 1113 TRADITIONAL CHIEFS AND HEADS OF VILLAGE

**Traditional Chiefs and Heads of Village** perform a variety of legislative, administrative and ceremonial tasks and duties determined by traditions, as well as by the division of rights and responsibilities between village heads and the local, regional and national authorities.

**Tasks include:**

- a) performing duties as a liaison officer to disseminate information about the state administration, government policies, and organise community development in the *mukim*;

- b) focusing on aspects of development, administration, religion and culture in the *mukim*;
- c) settling disputes between members of the community or village;
- d) disciplining members of the community or village for violation of rules and customs;
- e) performing ceremonial duties in connection with births, marriages, deaths, harvests and other traditional festivities;
- f) representing the community or village in local or regional councils;
- g) informing the community or village about government directives and regulations; and
- h) performing related tasks.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 1113](#))

1113-01	Headman, Grade NP27
1113-02	<i>Demang</i>
1113-03	<i>Penggawa</i>
1113-04	Village Head

#### UNIT GROUP 1114 SENIOR OFFICIALS OF SPECIAL-INTEREST ORGANISATIONS

**Senior Officials of Special-Interest Organisations** determine, formulate and direct the implementation of policies of special interest organisations such as political party organisations, trade unions, employers' organisations, trade and industry associations, humanitarian or charitable organisations, or sports associations, and act on their behalf.

**Tasks include:**

- a) determining and formulating the policies, rules and regulations of the political party or organisation;
- b) planning, directing and coordinating the general functioning of the organisation;
- c) reviewing the operations and results of the organisation meetings and reporting to the board of directors and governing bodies, the organisation's membership and funding agencies;
- d) planning, organising and directing divisions charged with implementing the organisation's policies;
- e) ensuring appropriate systems and procedures are developed and implemented to provide budgetary control;
- f) monitoring and evaluating the performance of the organisation or enterprise against established objectives and policies;
- g) representing the organisation on official occasions and at board meetings, in negotiations, at conventions, public hearings and forums;
- h) performing related tasks; and
- i) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 1114](#))

1114-01	President of Political Party
1114-02	President of Employers' Federation
1114-03	President of Trade Union Congress
1114-04	President of Congress of Unions of Employees in the Public and Civil Services

## MINOR GROUP 112 MANAGING DIRECTORS AND CHIEF EXECUTIVES

**Managing Directors and Chief Executives** formulate and review policies and plan, coordinate and evaluate the overall activities of enterprises or organisations (except special interest organisations and government departments) with the support of other managers, usually within guidelines established by a board of directors or a governing body to whom they are answerable for the operations undertaken and results.

### UNIT GROUP 1121 **MANAGING DIRECTORS AND CHIEF EXECUTIVES**

**Managing Directors and Chief Executives** formulate and review policies and plan, direct, coordinate and evaluate the overall activities of enterprises or organisations (except special interest organisations and government departments) with the support of other managers, usually within guidelines established by a board of directors or a governing body to whom they are answerable for the operations undertaken and results.

#### Tasks include:

- a) planning, directing and coordinating the general functions of the enterprise or organisation;
- b) reviewing the operations and results of the enterprise or organisation and reporting to the board of directors and governing bodies;
- c) determining objectives, strategies, policies and programmes for the enterprise or organisation;
- d) providing overall leadership and management to the enterprise or organisation;
- e) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- f) monitoring and evaluating the performance of the organisation or enterprise against established objectives and policies;
- g) consulting and reviewing recommendations and reports with senior subordinate staff;
- h) representing the organisation at official occasions and board meetings, in negotiations, at conventions, seminars, public hearings and forums;
- i) selecting or approving the selection of senior staff;
- j) ensuring the organisation complies with relevant legislation and regulations;
- k) performing related tasks; and
- l) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 1121](#))

1121-01	Chief Executive Officer
1121-02	Chief Operating Officer
1121-03	Executive Director
1121-04	Company Director

## SUB-MAJOR 12 **ADMINISTRATIVE AND COMMERCIAL MANAGERS**

**Administrative and Commercial Managers** plan, organise, direct, control and coordinate activities concerning the finances, administration, human resource, policies, planning, research and development, advertising, public relations, and sales and marketing of enterprises and organisations, or of enterprises that provide such services to other enterprises and organisations.

### MINOR GROUP 121 **BUSINESS SERVICES AND ADMINISTRATION MANAGERS**

**Business Services and Administration Managers** plan, organise, direct, control and coordinate activities concerning the finances, administration, human resource and policy planning of organisations, or of enterprises that provide such services to other enterprises and organisations.

#### UNIT GROUP 1211 **FINANCE MANAGERS**

**Finance Managers** plan, organise, direct, control and coordinate activities concerning the financial operations and participate in formulating the financial policy in consultation with senior managers and managers of the department, or other divisions.

**Tasks include:**

- a) planning, directing, controlling and coordinating the internal financial operations of the enterprise or organisation;
- b) ensuring the organisation's financial statements have been dealt with in the right manner;
- c) assessing the financial situation of the enterprise or organisation, preparing budgets and overseeing various financial operations;
- d) consulting with the chief executive and with managers of other divisions and departments;
- e) controlling expenditure and ensuring efficient use of resources;
- f) planning and directing daily operations;
- g) overseeing the selection, training and performance of staff;
- h) representing the department in its dealings with other divisions of the organisation or with external agencies;
- i) performing related tasks; and
- j) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 1211](#))

1211-01	Finance Manager
1211-02	Account Manager
1211-03	Budget Manager
1211-04	Audit Manager

#### UNIT GROUP 1212 **HUMAN RESOURCE MANAGERS**

**Human Resource Managers** plan, organise, direct, control and coordinate policies concerning the personnel, industrial relations and occupational safety and health of an enterprise or organisation, or of enterprises that provide human resource services to other enterprises and organisations.

**Tasks include:**

- a) planning, directing and coordinating policies concerning activities of personnel and the industrial relations of the enterprise or organisation;
- b) planning and organising procedures for recruitment, training, promotion, transfer

- and dismissal of staff;
- c) planning and organising negotiations and procedures for determination of wage structures and levels and for consultation with workers on conditions of employment;
- d) overseeing safety, health and related activities;
- e) establishing and managing budgets, controlling expenditure and ensuring the efficient use of resources;
- f) establishing and directing operational and administrative procedures;
- g) overseeing the development and implementation of management information systems;
- h) ensuring compliance with standards and legislation relating to employees' rights, safety and health, equal opportunity and related concerns;
- i) overseeing the selection, training and performance of staff for the entire enterprise or organisation;
- j) consulting with the senior management and with managers of other departments;
- k) representing the enterprise or organisation in external matters;
- l) performing related tasks; and
- m) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 1212](#))

1212-01	Human Resource Manager
1212-02	Training Manager
1212-03	Industrial Relations Manager
1212-04	Occupational Safety and Health Manager

#### UNIT GROUP 1213 POLICY AND PLANNING MANAGERS

**Policy and Planning Managers** plan, organise, coordinate and advise on policy and strategic planning activities within the government or for non-government organisations and private sector agencies, or manage the activities of enterprises that provide policy and strategic planning services.

**Tasks include:**

- a) developing, implementing and monitoring strategic plans, programmes, policies, processes, systems and procedures to achieve goals, objectives and work standards;
- b) developing, directing, administering and participating in policy research and analysis;
- c) analysing and interpreting results of studies, and preparing reports detailing findings, recommendations or conclusions;
- d) designing, evaluating and modifying policies to ensure that programmes are effective and in compliance with legal requirements;
- e) performing related tasks; and
- f) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 1213](#))

1213-01	Policy and Planning Manager
1213-02	Strategic Planning Manager
1213-03	Corporate Planning Manager
1213-04	Policy and Research Manager

## UNIT GROUP 1214 BUSINESS SERVICES MANAGERS

**Business Services Managers** plan, organise, direct, control and coordinate sales and marketing activities of an enterprise or organisation.

### Tasks include:

- a) planning, directing and coordinating the business services activities of the enterprise or organisation;
- b) planning and organising special sales and marketing programmes based on sales records and market assessments;
- c) planning, administering and reviewing customer services and after-sales services and maintaining good customer relations;
- d) determining price lists, discounts and delivery terms, credit arrangements, product mix, geographical sales areas, sales promotion budgets, sales methods, customer service standards, special incentives and special campaigns;
- e) directing merchandising methods and distribution policy by coordinating the work of salespersons or organising appointment of agents and distributors;
- f) controlling expenditure and ensuring the efficient use of resources;
- g) monitoring customer service, invoicing, payments and administration costs;
- h) establishing and directing operational and administrative procedures;
- i) planning and directing daily operations;
- j) overseeing the selection, training and performance of staff;
- k) representing the department in its dealings with other divisions of the organisation or with external agencies;
- l) performing related tasks; and
- m) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 1214\)](#)

1214-01	Production Manager
1214-02	Production and Business Operation Manager
1214-03	Business Service Development Manager
1214-04	Production Planner

## UNIT GROUP 1215 ADMINISTRATIVE MANAGERS

**Administrative Managers** plan, organise, direct, control and coordinate administrative operations of the support services such as record-keeping, mail distribution, telephone operator/ receptionist and other office support services of an enterprise or organisation.

### Tasks include:

- a) coordinating the administrative operations of the enterprise or organisation;
- b) planning, administering and controlling budget contracts for equipment and supplies;
- c) monitoring the facility to ensure that it remains in good condition, secure and well-maintained;
- d) preparing and reviewing operational reports and schedule to ensure accuracy and efficiency of the organisation;
- e) overseeing construction and renovation projects to improve efficiency and to ensure that facilities meet environmental, health and security standards and comply with government regulations;
- f) overseeing the selection, training and performance of staff;
- g) representing the department in its dealings with other divisions of the organisation or with external agencies;
- h) performing related tasks; and
- i) managing, planning, scheduling and monitoring the tasks of other workers.



Examples of the occupations classified here: [\(refer to index; unit group 1215\)](#)

1215-01	Administrative Manager
1215-02	Administrative Service Manager

#### UNIT GROUP 1219 BUSINESS SERVICES AND ADMINISTRATION MANAGERS NOT ELSEWHERE CLASSIFIED

This unit group covers Business Services and Administration Not Elsewhere Classified in Minor Group 121: Business Services and Administration Managers.

**Tasks include:**

- a) providing administrative operations, strategic planning as well as offering support, research and advise to the management;
- b) developing and implementing administrative procedures;
- c) analysing complex management issues and initiatives that affect the organisation, and preparing reports or feedback;
- d) providing information and support for the preparation of financial reports and budgets;
- e) planning and implementing policies;
- f) making budgetary estimates;
- g) negotiating with suppliers, customers and other organisations;
- h) planning and controlling the use of human resources;
- i) performing related tasks; and
- j) managing, planning, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: [\(refer to index; unit group 1219\)](#)

1219-01	Purchasing Manager
1219-02	Quality Control Manager
1219-03	Quality Assurance Manager
1219-04	Facilities Manager

#### MINOR GROUP 122 SALES, MARKETING AND DEVELOPMENT MANAGERS

**Sales, Marketing and Development Managers** plan, organise, direct, control and coordinate activities concerning advertising, public relations, research and development, and sales and marketing of enterprises and organisations, or of enterprises that provide such services to other enterprises and organisations.

#### UNIT GROUP 1221 SALES AND MARKETING MANAGERS

**Sales and Marketing Managers** plan, organise, direct, control and coordinate activities concerning the sales and marketing of an enterprise or organisation, or of enterprises that provide sales and marketing services to other enterprises and organisations.

**Tasks include:**

- a) planning, directing and coordinating the sales and marketing activities of the enterprise or organisation;
- b) planning and organising special sales and marketing programmes based on sales records and market assessments;
- c) planning, administering and reviewing customer services and after-sales services and maintaining good customer relations;

- d) determining price lists, discounts and delivery terms, credit arrangements, product mix, geographical sales areas, sales promotion budgets, sales methods, customer service standards, special incentives and special campaigns;
- e) directing merchandising methods and distribution policy by coordinating the work of salespersons or managing the appointment of agents and distributors;
- f) controlling expenditure and ensuring the efficient use of resources;
- g) monitoring customer service, invoicing, payments and administration costs;
- h) planning and directing daily operations;
- i) overseeing the selection, training and performance of staff;
- j) representing the department in its dealings with other divisions of the organisation or with external agencies;
- k) performing related tasks; and
- l) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 1221\)](#)

1221-01	Sales Manager
1221-02	Sales and Marketing Manager
1221-03	Marketing Manager
1221-04	Sales Promotion Manager

#### **UNIT GROUP 1222 ADVERTISING AND PUBLIC RELATIONS MANAGERS**

**Advertising and Public Relations Managers** plan, organise, direct, control and coordinate the advertising and public relations activities of enterprises and organisations or of enterprises that provide related services to other enterprises and organisations.

**Tasks include:**

- a) planning, directing and coordinating the advertising and public relations activities of the enterprise or organisation;
- b) negotiating advertising contracts with officials of newspapers, radio and television stations, sports and cultural organisations and advertising agencies;
- c) planning and managing information programmes for legislators, the mass media and general public about the plans, accomplishments and points of view of the enterprise or organisation;
- d) controlling expenditure and ensuring the efficient use of resources;
- e) establishing and directing operational and administrative procedures;
- f) planning and directing daily operations;
- g) overseeing the selection, training and performance of staff;
- h) representing the department in its dealings with other divisions of the organisation or with external bodies;
- i) performing related tasks; and
- j) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 1222\)](#)

1222-01	Advertising Manager
1222-02	General Affairs Manager
1222-03	Communications Manager
1222-04	Public Relations Manager

## UNIT GROUP 1223 RESEARCH AND DEVELOPMENT MANAGERS

**Research and Development Managers** plan, organise, direct, control and coordinate the research and development activities of organisations or of enterprises that provide development services to other enterprises and organisations.

### Tasks include:

- a) planning, directing and coordinating research and development activities, whether in-house or commissioned by external research organisations, to develop or improve technical processes, products, knowledge or utilisation of materials;
- b) planning the overall research and development programme of the enterprise or organisation, specifying budgetary requirements;
- c) controlling expenditure and ensuring the efficient use of resources;
- d) planning and directing daily operations;
- e) overseeing the selection, training and performance of staff;
- f) representing the department in its dealings with other divisions of the organisation or with external agencies;
- g) performing related tasks; and
- h) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 1223\)](#)

1223-01	Research and Development Manager
1223-02	Product Development Manager
1223-03	Research Manager

## SUB-MAJOR 13 **PRODUCTION AND MANUFACTURING MANAGERS**

**Production and Manufacturing Managers** plan, organise, direct, control and coordinate the production of goods and the provision of specialised technical and professional services by an enterprise or organisation. They are responsible for manufacturing, mining, construction, logistics and large scale agricultural, forestry and fishery operations.

### MINOR GROUP 131 **PRODUCTION MANAGERS**

**Production Managers** plan, organise, direct, control and coordinate the production of agricultural, horticultural, forestry, aquaculture and fishery operations on a large scale such as plantations and agricultural cooperatives to cultivate and harvest crops, breed and raise livestock, fish and shellfish and to catch and process fish products and other forms of aquatic life.

#### UNIT GROUP 1311 **AGRICULTURAL, FORESTRY AND LIVESTOCK PRODUCTION MANAGERS**

**Agricultural, Forestry and Livestock Production Managers** plan, organise, direct, control and coordinate large scale production operations in agriculture, horticulture and forestry to cultivate and harvest crops, and breed and raise livestock.

#### Tasks include:

- a) coordinating all activities related to the park such as education, development, enforcement, eco-tourism and maintenance;
- b) analysing statistical data, studies and reports to identify and determine causes of problems and offering recommendations for improvement of agricultural systems, procedures or programmes;
- c) monitoring agricultural and forestry market activities and planning production to meet market requirements and demand;
- d) establishing and managing budgets, monitoring production and recording information such as farm management practices, and preparing financial and operational reports;
- e) conferring with buyers to arrange for the sale of crops and livestock;
- f) contracting with farmers or independent owners for production of crops and livestock, or for management of production;
- g) planning the type, intensity and method of farm operations (e.g. determining the best times for planting, spraying and harvesting);
- h) analysing soil to determine the types and quantities of fertiliser required for maximum production;
- i) purchasing machinery, equipment and supplies such as tractors, seeds, fertiliser and chemicals;
- j) identifying and controlling toxins, weeds, pests and diseases on agricultural land and forests;
- k) organising farming operations such as maintaining buildings, water supply systems and equipment;
- l) performing related tasks; and
- m) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1311)*

1311-01	Park / Estate Manager, Grade G48
1311-02	Forestry Manager
1311-03	Plantation Manager
1311-04	Horticulture Manager

## UNIT GROUP 1312 AQUACULTURE AND FISHERIES PRODUCTION MANAGERS

**Aquaculture and Fisheries Production Managers** plan, organise, direct, control and coordinate aquaculture and fishery production operations to catch and process fish or shellfish, and to breed fish, shellfish or other forms of aquatic life as cash crops or for release into freshwater or saltwater.

### Tasks include:

- a) planning and implementing policies and legislation;
- b) planning, directing and coordinating activities concerning the production of aquaculture and fishery to meet market demand;
- c) conducting and organising aquaculture or fishery stock examinations in order to identify diseases or parasites;
- d) devising and coordinating activities to improve fish hatching and growth rates, and to prevent disease in hatcheries;
- e) monitoring the environment to maintain or improve conditions for aquatic life;
- f) directing and monitoring trapping and spawning of fish, egg incubation, and applying knowledge of management and fish culturing techniques;
- g) ensuring the efficient use of resources and the fulfilment of production quotas;
- h) planning and directing daily operations;
- i) making budgetary estimates and controlling expenditure;
- j) establishing and directing operational and administrative procedures;
- k) overseeing the application of work safety and related procedures;
- l) overseeing the selection, training and performance of staff;
- m) negotiating with suppliers, customers and other organisations;
- n) performing related tasks; and
- o) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index unit group 1312\)](#)

1312-01	Fishery Manager
1312-02	Production and Operation Manager, Fishery
1312-03	Aquaculture Operation Manager
1312-04	Fishing Operations Manager

## MINOR GROUP 132 MANUFACTURING, MINING, CONSTRUCTION AND DISTRIBUTION MANAGERS

**Manufacturing, Mining, Construction and Distribution Managers** plan, organise, direct, control and coordinate the manufacturing, mineral extraction, construction, distribution, storage and transport operations.

### UNIT GROUP 1321 MANUFACTURING MANAGERS

**Manufacturing Managers** plan, organise, direct, control and coordinate manufacturing production activities of large enterprises or manage a small manufacturing company.

### Tasks include:

- a) planning and implementing policies and legislation;
- b) determining, implementing and monitoring production strategies, policies and plans;
- c) planning, directing and coordinating activities concerning the production of goods;
- d) ensuring the efficient use of resources and the fulfilment of production quotas;
- e) planning and directing daily operations;
- f) making budgetary estimates and controlling expenditure;
- g) establishing and directing operational and administrative procedures;

- h) overseeing the application of work safety and related procedures;
- i) identifying business opportunities and determining the products to be manufactured;
- j) overseeing the selection, training and performance of staff;
- k) negotiating with suppliers, customers and other organisations;
- l) representing the department in its dealings with other divisions of the enterprise or with external agencies;
- m) ensuring all production processes meet the manufacturing specification;
- n) ensuring optimal utilisation of manpower, machine and equipment;
- o) performing related tasks; and
- p) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 1321](#))

1321-01	Manufacturing Manager
1321-02	Production and Operation Manager, Manufacturing
1321-03	Factory Manager
1321-04	Manufacturer

#### UNIT GROUP 1322 MINING MANAGERS

**Mining Managers** plan, organise, direct, control and coordinate the activities concerning mining, quarrying and oil and gas extraction operations.

**Tasks include:**

- a) planning, directing and coordinating activities concerning the extraction of minerals, oil and gas;
- b) conferring with other managers to set production quotas and plan extraction sites;
- c) ensuring the efficient use of resources and the fulfilment of production quotas;
- d) planning and directing daily operations;
- e) making budgetary estimates and controlling expenditure;
- f) establishing and directing operational and administrative procedures;
- g) overseeing the application of work safety and related procedures;
- h) overseeing the selection, training and performance of staff;
- i) representing the department in its dealings with other divisions of the enterprise or with external agencies;
- j) performing related tasks; and
- k) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 1322](#))

1322-01	Production and Operation Manager, Mine
1322-02	Production and Operation Manager, Quarry
1322-03	Production and Operation Manager, Oil and Gas Extraction
1322-04	Oil and Gas Extraction Manager

#### UNIT GROUP 1323 CONSTRUCTION MANAGERS

**Construction Managers** plan, organise, direct, control and coordinate activities concerning the construction of civil engineering projects, buildings and dwellings.

**Tasks include:**

- a) planning, directing and coordinating activities concerning the construction of buildings, dams, highways, pipelines and related construction projects;
- b) interpreting architectural drawings and specifications;



- c) negotiating with building owners, property developers and subcontractors involved in the construction process to ensure projects are completed on time and within budget;
- d) planning procedures for construction on basis of starting and completion times and staffing requirements for each phase of construction, based on knowledge of available tools and equipment and various building methods;
- e) planning and organising daily operations;
- f) controlling expenditure;
- g) directing operational and administrative procedures;
- h) overseeing the application of work safety and related procedures;
- i) overseeing the selection, training and performance of staff;
- j) performing related tasks; and
- k) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 1323\)](#)

1323-01	Construction Manager
1323-02	Production and Operation Manager, Construction
1323-03	Contract Manager
1323-04	Operation Manager

#### **UNIT GROUP 1324 SUPPLY, DISTRIBUTION AND RELATED MANAGERS**

**Supply, Distribution and Related Managers** plan, organise, direct, control and coordinate the supply, transport, storage and distribution of goods.

**Tasks include:**

- a) determining, implementing and monitoring purchasing, storage and distribution strategies, policies and plans;
- b) preparing and implementing plans to maintain required stock levels at minimum cost;
- c) planning and implementing policies and legislation;
- d) ensuring the efficient use of resources and the fulfilment of production quotas;
- e) operating recording systems to track all movements of goods, and ensuring re-ordering and re-stocking at optimal times;
- f) planning and directing daily operations;
- g) controlling expenditure and making budgetary estimates;
- h) overseeing the application of work safety and related procedures;
- i) overseeing the selection, training and performance of staff;
- j) negotiating with suppliers, customers and other organisations;
- k) coordinating and controlling the order cycle and associated information systems;
- l) analysing data to monitor performance and plan improvements;
- m) developing business by securing new contracts, analysing logistical problems and finding solutions;
- n) performing related tasks; and
- o) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 1324\)](#)

1324-01	Railway Station Master
1324-02	Transport Manager
1324-03	Supply Manager
1324-04	Warehouse Manager

## SUB-MAJOR 14 **HOSPITALITY, RETAIL AND OTHER SERVICES MANAGERS**

**Hospitality, Retail and Other Services Managers** plan, organise, direct, control and coordinate the operations of establishments which provide accommodation, hospitality, retail and other services.

### MINOR GROUP 141 **HOTEL AND RESTAURANT MANAGERS**

**Hotel and Restaurant Managers** plan, organise, direct, control and coordinate the operations of establishments that provide accommodation, food and beverages and other hospitality services.

#### UNIT GROUP 1411 **HOTEL MANAGERS**

**Hotel Managers** plan, organise, direct, control and coordinate the operations of hotels, motels and similar establishments to provide accommodation and other services including food and beverage operations and housekeeping.

##### Tasks include:

- a) planning and organising accommodation, catering, housekeeping and other hotel services;
- b) promoting and marketing the business;
- c) managing budgets and controlling expenditure;
- d) maintaining statistical and financial records;
- e) setting and achieving sales and profit targets;
- f) recruiting, training and monitoring staff;
- g) meeting and welcoming customers;
- h) providing guests with information on local tourism, and arranging tours and transport;
- i) addressing problems and troubleshooting;
- j) ensuring events and conferences run smoothly;
- k) supervising maintenance, supplies, renovations and furnishing;
- l) dealing with contractors and suppliers;
- m) ensuring security is effective;
- n) carrying out inspections on property and services;
- o) ensuring compliance with licensing laws, health and safety and other statutory regulations;
- p) performing related tasks; and
- q) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 1411](#))

1411-01	Hotel Manager
1411-02	Hostel Manager, Grade N41
1411-03	Hostel Manager
1411-04	Motel Manager

#### UNIT GROUP 1412 **RESTAURANT MANAGERS**

**Restaurant Managers** plan, organise, direct, control and coordinate the operations of cafes, restaurants and related establishments to provide dining and catering services.

##### Tasks include:

- a) analysing and planning restaurant sales levels and profitability;
- b) planning and organising special functions;
- c) arranging the purchasing and pricing of goods according to budget;
- d) planning and coordinating menus in consultation with chefs and cooks;

- e) coordinating the operations of the entire restaurant;
- f) ensuring dining, kitchen and food storage facilities comply with health regulations;
- g) meeting and welcoming customers and managing table reservations;
- h) maintaining high standards of quality control, hygiene and health and safety;
- i) checking stock levels and ordering supplies;
- j) preparing budgetary estimates;
- k) ensuring compliance with occupational health and safety regulations;
- l) performing related tasks; and
- m) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1412)*

1412-01	Restaurant Manager
1412-02	Bar Manager
1412-03	Café Manager
1412-04	Canteen Manager

#### **MINOR GROUP 142 RETAIL AND WHOLESALE TRADE MANAGERS**

**Retail and Wholesale Trade Managers** plan, organise, direct, control and coordinate activities concerning the operations of establishments that sell goods on a retail or wholesale basis.

#### **UNIT GROUP 1421 RETAIL AND WHOLESALE TRADE MANAGERS**

**Retail and Wholesale Trade Managers** plan, organise, direct, control and coordinate the operations of establishments that sell goods on a retail or wholesale basis.

##### **Tasks include:**

- a) planning, directing and coordinating activities concerning the trade carried out by the enterprise;
- b) formulating and implementing purchasing and marketing policies, and setting prices;
- c) promoting and advertising the establishment's goods and services;
- d) ensuring efficient use of resources and trade quotas are met;
- e) planning and directing daily operations;
- f) controlling expenditure;
- g) establishing and directing operational and administrative procedures;
- h) overseeing the application of work safety and related procedures;
- i) overseeing the selection, training and performance of staff;
- j) performing related tasks; and
- k) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1421)*

1421-01	Retail Trade Manager
1421-02	Production and Operation Manager, Retail Trade
1421-03	Retail Trade Manager, Store
1421-04	Wholesaler

## SUB-MAJOR 15 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS

**Information and Communications Technology Managers** plan, organise, control and coordinate the acquisition, development, maintenance and use of computers and telecommunications systems.

### MINOR GROUP 151 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS

**Information and Communications Technology Managers** plan, organise, control and coordinate the acquisition, development, maintenance and use of computers and telecommunications systems.

#### UNIT GROUP 1511 INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS

**Information and Communications Technology Managers** organise, plan, direct, control and coordinate the acquisition, development, maintenance and use of computers and telecommunications systems.

#### Tasks include:

- a) directing the formulation of information technology strategies, policies and plans;
- b) consulting with users, the management, vendors and technicians;
- c) directing information technology operations, computer hardware integration, operating communications systems, software application and data processing;
- d) setting priorities between system development, maintenance and operations;
- e) controlling the security of the information technology systems;
- f) managing information technology development projects to ensure that they are completed on schedule, within budget and meet the level of quality to achieve the objective;
- g) evaluating the organisation's technology use and needs and recommending improvements such as hardware and software upgrades;
- h) controlling the budget and expenditure of the department or organisation;
- i) overseeing the selection, training and performance of staff;
- j) representing the department in its dealings with other divisions of the organisation or with external agencies;
- k) performing related tasks; and
- l) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1511)*

1511-01	InfoDesa Field (MID) Manager
1511-02	Chief Information Technology Officer
1511-03	Production and Operation Manager, Communications
1511-04	Information Systems Manager

## SUB-MAJOR 16 SERVICES MANAGERS

**Services Managers** plan, direct and coordinate activities concerning professional and other services.

### MINOR GROUP 161 PROFESSIONAL SERVICES MANAGERS

**Professional Services Managers** plan, control and coordinate activities concerning child care, health, social welfare, education and related professional services, and manage the branches of institutions providing financial and insurance services, legal provision and property management.

#### UNIT GROUP 1611 CHILD CARE SERVICES MANAGERS

**Child Care Services Managers** plan, control and coordinate activities concerning childcare services for children before school, after school and at day care centres.

**Tasks include:**

- a) managing multiple professional social service programmes to protect children and families including services and activities pertaining to child abuse;
- b) developing and implementing programmes to enhance the physical, social, emotional and intellectual development of young children;
- c) planning and monitoring business management, facility management, human resource management and child safety requirements;
- d) planning and implementing policies;
- e) making budgetary estimates;
- f) negotiating with suppliers, customers and other organisations;
- g) planning and controlling the use of human resources and hiring of workers;
- h) managing daily operations;
- i) performing related tasks; and
- j) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1611)*

1611-01	Child care Centre Manager
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#### UNIT GROUP 1612 HEALTH SERVICES MANAGERS

**Health Services Managers** plan, control and coordinate activities concerning clinical and community health care services in hospitals, clinics, public health agencies and similar organisations.

**Tasks include:**

- a) providing direction and management for all services, facilities of the organisation or health centre;
- b) directing, supervising and evaluating the activities of medical, nursing, technical, clerical, service, maintenance and other personnel;
- c) developing, implementing and monitoring procedures, policies and performance standards for medical, nursing, technical and administrative staff;
- d) advising government bodies about measures to improve health and welfare services and facilities;
- e) managing the recruitment, selection, appraisal and development of staff;
- f) overseeing the day-to-day management of an organisation, a specific unit or a service area;
- g) planning and implementing policies;
- h) performing related tasks; and
- i) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1612)*

1612-01	Medical Service Director
1612-02	Director of Nursing
1612-03	Health Manager
1612-04	Hospital Administrator

#### **UNIT GROUP 1613 AGED CARE SERVICES MANAGERS**

**Aged Care Services Managers** plan, control and coordinate activities concerning care for individuals and families due to the effects of ageing.

**Tasks include:**

- a) providing policy direction and assisting in the development of appropriate funding;
- b) meeting, maintaining and exceeding the high standard of quality care and services;
- c) planning and monitoring business management, facility management, human resource management and safety requirements;
- d) planning and implementing policies;
- e) making budgetary estimates;
- f) negotiating with suppliers, customers and other organisations;
- g) planning and controlling the use of human resources and hiring workers;
- h) managing daily operations;
- i) advising government bodies about measures to improve health and welfare services and facilities;
- j) performing related tasks; and
- k) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1613)*

1613-01	Aged Care Service Manager
1613-02	Aged Care Home Director
1613-03	Community Aged Care Coordinator

#### **UNIT GROUP 1614 SOCIAL WELFARE MANAGERS**

**Social Welfare Managers** plan, control and coordinate activities concerning social and community service programmes and assist in planning and implementing local welfare programmes.

**Tasks include:**

- a) providing direction and management for all services and facilities of the organisation or welfare centre;
- b) developing and implementing objectives and policies for various welfare programmes;
- c) managing funds and the budget;
- d) negotiating service contract coverage and making written agreements with the programme providers;
- e) maintaining liaison with local welfare and social agencies;
- f) monitoring and evaluating the effectiveness of service delivery methods and procedures;
- g) performing related tasks; and
- h) managing, planning, scheduling and monitoring the tasks of other workers.



**Examples of the occupations classified here:** *(refer to index; unit group 1614)*

1614-01	Social Work Manager
1614-02	Social Work Operation Manager
1614-03	Community Centre Manager
1614-04	Welfare Centre Manager

#### **UNIT GROUP 1615 EDUCATION MANAGERS**

**Education Managers** plan, control and coordinate and evaluate the educational and administrative aspects in primary and secondary schools, colleges and faculties and departments in universities and other educational institutions.

**Tasks include:**

- determining educational programmes based on frameworks established by education authorities and governing bodies;
- evaluating the work of teachers and lecturers by visiting classrooms, observing teaching methods, reviewing instructional objectives and examining learning materials;
- overseeing educational research aimed at providing new directions for the education system;
- representing the organisation on committees to identify present and future needs in the education system, and planning, developing and modifying facilities and programmes;
- managing the evaluation of new approaches and development of new courses;
- organising and conducting workshops and conferences to train teachers in new programmes and methods;
- applying for and managing funding for new educational programmes;
- managing processes related to school reviews, teacher assessment and education planning in primary and secondary schools;
- preparing and overseeing the preparation of reports and information papers;
- managing the provision of education in rural or remote areas, or within specific institutions;
- performing related tasks; and
- managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1615)*

1615-01	Education Manager
1615-02	Chancellor
1615-03	Principal
1615-04	Head Teacher

#### **UNIT GROUP 1616 FINANCIAL AND INSURANCE SERVICES BRANCH MANAGERS**

**Financial and Insurance Services Branch Managers** plan, control and coordinate the branches of institutions that provide financial and insurance services such as banks, credit unions and insurance companies for one or more of their branches or department.

**Tasks include:**

- planning, directing and coordinating the activities of workers in branches, offices or departments such as the establishment of bank branches, brokerage firms, risk and insurance departments, or credit departments;
- overseeing the flow of cash and financial instruments;
- networking within communities to find and attract new business;



- d) approving or rejecting, or coordinating approval and rejection of credit and commercial, real estate and personal loans;
- e) preparing financial and regulatory reports required by the law, regulations and boards of directors;
- f) establishing procedures for custody and control of assets, records, loan, collateral and securities in order to ensure safekeeping;
- g) managing and formulating policies of financial institutions such as banks, trust companies, savings and loan associations, insurance companies and related financial institutions;
- h) examining, evaluating and processing loan applications;
- i) preparing operational evaluation in risk report for management analysis;
- j) evaluating financial reporting systems, accounting and collection procedures and investment activities and making recommendation for change to procedures, operating systems, budgets and other financial control functions;
- k) submitting delinquent accounts to lawyers or external agencies for collection;
- l) performing related tasks; and
- m) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** (refer to index; unit group 1616)

1616-01	Financial and Insurance Branch Manager
1616-02	Financial Branch Manager
1616-03	Insurance Branch Manager
1616-04	Bank Manager

#### UNIT GROUP 1617 LEGAL MANAGERS

**Legal Managers** plan, control and coordinate the operations of establishments concerning legal terminology, procedures and documents.

**Tasks include:**

- a) planning, analysing and advising on the compliance of the company's business operations with relevant statutory and regulatory requirements and the company's rights;
- b) managing external legal support, if required;
- c) keeping abreast of legal developments affecting the company, its clients and the industry and synthesising the information to incorporate it into the company's transactional practices;
- d) educating company executives about legal and risk management issues;
- e) representing the company and liaising directly with clients and negotiating teams;
- f) formulating, reviewing and negotiating a broad range of contracts;
- g) strategising with company executives prior to client negotiations;
- h) developing and understanding risk mitigation strategies for contractual risks;
- i) developing internal guidelines and knowledge on various legal and business issues;
- j) developing subject matter expertise in areas that benefit the legal group and/or the business (e.g., corporation law, competition law, employment law, data privacy and service line expertise);
- k) supporting, promoting and implementing initiatives as part of the legal team;
- l) planning and implementing policies;
- m) making budgetary estimates;
- n) performing related tasks; and
- o) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** (refer to index; unit group 1617)

1617-01	Legal and Risk Management Manager
1617-02	Legal Manager

#### UNIT GROUP 1618 PROPERTY MANAGERS

**Property Managers** handle fees charged on real estate and raise the investment value of real estate by managing the real estate as well as oversee the performance of income-producing commercial or residential properties to ensure that real estate investments achieve their expected revenues.

**Tasks include:**

- a) handling the financial operations of the property, ensuring that rent is collected and that mortgages, taxes, insurance premiums, salaries and maintenance bills are paid on time;
- b) supervising the preparation of financial statements and periodic reports to the owners on the status of the property, occupancy rates, expiration dates of leases and other matters;
- c) negotiating contracts for caretaking, security, groundskeeping, rubbish disposal, and other services;
- d) monitoring the performance of contractors and investigating and resolving complaints from residents and tenants when services are not satisfactory;
- e) understanding and complying with relevant legislation, ensuring that renting and advertising practices are not discriminatory, and that the property itself complies with all local, state and federal regulations and building code;
- f) making budgetary estimates;
- g) planning and controlling the use of resources and hiring of workers;
- h) performing related tasks; and
- i) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** (refer to index; unit group 1618)

1618-01	Property Maintenance Manager
1618-02	Property Manager
1618-03	Real Estate Manager

#### UNIT GROUP 1619 PROFESSIONAL SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED

This unit group covers Professional Services Managers Not Elsewhere Classified in Minor Group 161: Professional Services Managers.

**Tasks include:**

- a) planning and implementing policies;
- b) making budgetary estimates;
- c) negotiating with suppliers, customers and other organisations;
- d) planning and controlling the use of resources and hiring of workers;
- e) managing daily operations;
- f) performing related tasks; and
- g) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** (refer to index; unit group 1619)

1619-01	Production and Operation Manager, Extra Territorial Organisation
1619-02	Design Manager

## MINOR GROUP 162 OTHER SERVICES MANAGERS

**Other Services Managers** plan, direct and coordinate the operations of establishments that provide sports and recreational, personal care, security and cultural services.

### UNIT GROUP 1621 **SPORTS AND RECREATION CENTRE MANAGERS**

**Sport and Recreation Centre Managers** plan, direct and coordinate the operations of establishments that provide sports and recreational, travelling and similar services.

**Tasks include:**

- a) planning, directing and coordinating activities concerning operations and recreational and sports activities;
- b) planning and organising sports and fitness programmes;
- c) ensuring that equipment is kept clean and in good condition;
- d) ensuring the efficient use of resources and the fulfilment of the schedules;
- e) planning and directing daily operations;
- f) controlling expenditure;
- g) establishing and directing operational and administrative procedures;
- h) overseeing the application of work safety and related procedures;
- i) overseeing the selection, training and performance of staff;
- j) representing the department in its dealings with other divisions of the enterprise or with external agencies;
- k) performing related tasks; and
- l) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1621)*

1621-01	Sports Activity Manager
1621-02	Recreation Manager
1621-03	Travel Agency Manager
1621-04	Park Manager

### UNIT GROUP 1622 **PERSONAL CARE, CLEANING AND RELATED SERVICES MANAGERS**

**Personal Care, Cleaning and Related Services Managers** plan, direct and coordinate the operations of establishments that provide personal care, cleaning, housekeeping, sanitation and sewerage or similar services.

**Tasks include:**

- a) planning, directing and coordinating activities concerning personal care, cleaning, sanitation, sewerage and services and related operations;
- b) ensuring the efficient use of resources and the fulfilment of the schedules;
- c) planning and directing daily operations;
- d) controlling expenditure;
- e) establishing and directing operational and administrative procedures;
- f) overseeing the application of related work safety procedures;
- g) overseeing the selection, training and performance of staff;
- h) representing the department in its dealings with other divisions of the enterprise or with external agencies;
- i) planning and implementing policies;
- j) making budgetary estimates;
- k) negotiating with suppliers, customers and other organisations;
- l) planning and controlling the use of resources and hiring of workers;
- m) reporting to owners, if necessary;
- n) performing related tasks; and

- o) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1622)*

1 622-01	Personal Care Service Manager
1 622-02	Cleaning Manager
1 622-03	Sanitation Manager
1 622-04	Garbage Disposal System Manager

#### UNIT GROUP 1623 SECURITY MANAGERS

**Security Managers** plan, direct and coordinate the operations of the establishment concerning security.

##### Tasks include:

- a) planning, formulating and enforcing security policies and regulations;
- b) overseeing the entire security surveillance;
- c) managing all in-house security personnel;
- d) reviewing any procedures or instructions that involve security to ensure all staff members are fully trained to achieve maximum security;
- e) enforcing strict discipline and carrying out investigation into any disciplinary matter among the staff;
- f) resolving safety and security issues promptly, effectively and independently;
- g) supporting, promoting and implementing initiatives as part of the legal team;
- h) negotiating with suppliers, customers and other organisations;
- i) planning and controlling the use of resources and hiring of workers;
- j) reporting to owners, if necessary;
- k) performing related tasks; and
- l) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1623)*

1 623-01	Security Manager
1 623-02	Security Operation Manager

#### UNIT GROUP 1624 CULTURAL CENTRE, MUSEUM AND LIBRARY MANAGERS

**Cultural Centre, Museum and Library Managers** plan, direct and coordinate the operations of establishments concerning culture, museum and library.

##### Tasks include:

- a) planning and organising a wide range of entertainment and cultural activities;
- b) ensuring that equipment are kept clean and in good condition;
- c) keeping abreast of new trends and developments in the creative arts and arranging theatrical productions and performances by bands and orchestras;
- d) overseeing the objects or documentation collected by the museum and conducting research on the collection;
- e) coordinating library operation;
- f) ensuring the efficient use of resources and the fulfilment of the schedules;
- g) planning and directing daily operations;
- h) controlling expenditure;
- i) establishing and directing operational and administrative procedures;
- j) overseeing the application of work safety and related procedures;
- k) overseeing the selection, training and performance of staff;

- l) representing the department in its dealings with other divisions of the enterprise or with external agencies;
- m) performing related tasks; and
- n) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1624)*

1624-01	Library Manager
1624-02	Museum Manager
1624-03	Archive Manager
1624-04	Cultural Manager

#### **UNIT GROUP 1629 OTHER SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED**

This unit group covers Other Services Managers Not Elsewhere Classified in Minor Group 162: Other Services Managers.

**Tasks include:**

- a) planning and implementing policies;
- b) making budgetary estimates;
- c) negotiating with suppliers, customers and other organisations;
- d) planning and controlling the use of human resources and hiring of workers;
- e) managing daily operations;
- f) reporting to owners, if necessary;
- g) performing related tasks; and
- h) managing, planning, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 1629)*





# 2

## PROFESSIONALS



**21 SCIENCE AND ENGINEERING PROFESSIONALS****211 PHYSICISTS, CHEMIST AND RELATED PROFESSIONALS**

- 2111 Physicists and Astronomers
- 2112 Meteorologists and Seismologists
- 2113 Chemists
- 2114 Geologists and Geophysicists

**212 MATHEMATICIANS, ACTUARIES AND STATISTICIANS**

- 2121 Mathematicians, Actuaries and Statisticians

**213 LIFE SCIENCE PROFESSIONALS**

- 2131 Biologists, Botanists, Zoologists and Related Professionals
- 2132 Farming, Forestry and Fisheries Advisers
- 2133 Environmental Protection Professionals
- 2134 Pharmacologists, Pathologists and Related Professionals

**214 ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY)**

- 2141 Industrial and Production Engineers
- 2142 Civil Engineers
- 2143 Environmental Engineers
- 2144 Mechanical Engineers
- 2145 Chemical Engineers
- 2146 Mining Engineers, Metallurgists and Related Professionals
- 2149 Engineering Professionals (Excluded Electrotechnology) Not Elsewhere Classified

**215 ELECTROTECHNOLOGY ENGINEERS**

- 2151 Electrical Engineers
- 2152 Electronic Engineers
- 2153 Telecommunications Engineers

**216 ARCHITECTS, PLANNERS, SURVEYORS AND DESIGNERS**

- 2161 Building Architects
- 2162 Landscape Architects
- 2163 Product and Garment Designers
- 2164 Town and Traffic Planners
- 2165 Cartographers and Surveyors
- 2166 Graphic and Multimedia Designers



## **217 SHIP, AIRCRAFT AND TRAIN/ LOCOMOTIVE CONTROLLERS**

- 2171 Ship Engineers
- 2172 Ship Deck Officers and Pilots
- 2173 Aircraft Pilots and Related Professionals
- 2174 Air Traffic Controllers
- 2175 Train/ Locomotive Controllers
- 2179 Transport Controllers Not Elsewhere Classified

## **218 MINING, MANUFACTURING & CONSTRUCTION PROFESSIONALS**

- 2181 Mining Professionals
- 2182 Manufacturing Professionals
- 2183 Construction Professionals

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## **22 HEALTH PROFESSIONALS**

### **221 MEDICAL DOCTORS**

- 2211 Generalist Medical Practitioners
- 2212 Specialist Medical Practitioners

### **222 NURSING AND MIDWIFERY PROFESSIONALS**

- 2221 Nursing Professionals
- 2222 Midwifery Professionals

### **223 TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS**

- 2231 Traditional and Complementary Medicine Professionals

### **224 PARAMEDICAL PRACTITIONERS**

- 2241 Paramedical Practitioners

### **225 VETERINARIANS**

- 2251 Veterinarians

### **226 OTHER HEALTH PROFESSIONALS**

- 2261 Dentists
- 2262 Pharmacists
- 2263 Environmental and Occupational Health and Hygiene Professionals
- 2264 Physiotherapists

2265 Dieticians and Nutritionists  
2266 Audiologists and Speech Therapist  
2267 Optometrists and Ophthalmic Opticians  
2268 Occupational Therapists  
2269 Health Professionals Not Elsewhere Classified

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## **23 TEACHING PROFESSIONALS**

### **231 UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONALS**

2311 University and Higher Education Teaching Professionals

### **232 VOCATIONAL EDUCATION TEACHERS**

2321 Vocational Education Teachers

### **233 SECONDARY EDUCATION TEACHERS**

2331 Secondary Education Teachers

### **234 PRIMARY SCHOOL AND EARLY CHILDHOOD TEACHERS**

2341 Primary School Teachers  
2342 Early Childhood Educators

### **235 MUSIC, ARTS AND PERFORMING ARTS TEACHERS**

2351 Music Teachers  
2352 Arts Teachers  
2353 Performing Arts Teachers

### **236 LANGUAGE TEACHERS**

2361 Language Teachers

### **237 RELIGIOUS TEACHERS**

2371 Religious Teachers

### **238 TECHNOLOGY SKILL AND TECHNICAL TRAINERS**

2381 Vocational Training Officers



## **239 OTHER TEACHING PROFESSIONALS**

- 2391 Education Method Specialists
- 2392 Special Needs Teachers
- 2393 Information Technology Trainers
- 2399 Teaching Professionals Not Elsewhere Classified

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## **24 BUSINESS AND ADMINISTRATION PROFESSIONALS**

### **241 FINANCE PROFESSIONALS**

- 2411 Accountants
- 2412 Financial and Investment Advisers
- 2413 Financial Analysts

### **242 ADMINISTRATION PROFESSIONALS**

- 2421 Management and Organization Analysts
- 2422 Policy Administration Professionals
- 2423 Personnel and Career Professionals
- 2424 Training and Staff Development Professionals
- 2425 Administrative Professionals
- 2426 Research and Development Professional

### **243 SALES, MARKETING AND PUBLIC RELATIONS PROFESSIONALS**

- 2431 Advertising and Marketing Professionals
- 2432 Public Relations Professionals
- 2433 Technical and Medical Sales Professionals (Excluding ICT)
- 2434 Information and Communications Technology (ICT) Sales Professionals

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## **25 INFORMATION AND COMMUNICATIONS TECHNOLOGY PROFESSIONALS**

### **251 SOFTWARE AND APPLICATION DEVELOPERS AND ANALYSTS**

- 2511 Systems Analysts
- 2512 Software Developers
- 2513 Web and Multimedia Developers
- 2514 Application Programmers
- 2519 Software and Application Developers and Analysts Not Elsewhere Classified

## **252 DATABASE AND NETWORK PROFESSIONALS**

- 2521 Database Designers and Administrators
  - 2522 Information Technology System Administrators
  - 2523 Computer Network Professionals
  - 2529 Database and Network Professionals Not Elsewhere Classified
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## **26 LEGAL PROFESSIONALS**

### **261 LEGAL PROFESSIONALS**

- 2611 Lawyers
  - 2612 Judges
  - 2619 Legal Professionals Not Elsewhere Classified
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## **27 HOSPITALITY AND RELATED SERVICES PROFESSIONALS**

### **271 HOTEL AND RESTAURANT PROFESSIONALS**

- 2711 Hotel Professionals
  - 2712 Restaurant Professionals
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## **28 SOCIAL AND CULTURAL PROFESSIONALS**

### **281 LIBRARIANS, ARCHIVISTS AND CURATORS**

- 2811 Archivists and Curators
- 2812 Librarians and Related Information Professionals

### **282 SOCIAL AND RELIGIOUS PROFESSIONALS**

- 2821 Economists
- 2822 Sociologists, Anthropologists and Related Professionals
- 2823 Philosophers, Historians and Political Scientist
- 2824 Psychologists
- 2825 Social Work and Counselling Professionals
- 2826 Religious Professionals

### **283 AUTHORS, JOURNALISTS AND LINGUISTS**

- 2831 Authors and Related Writers
- 2832 Journalists
- 2833 Translators, Interpreters and Other Linguists





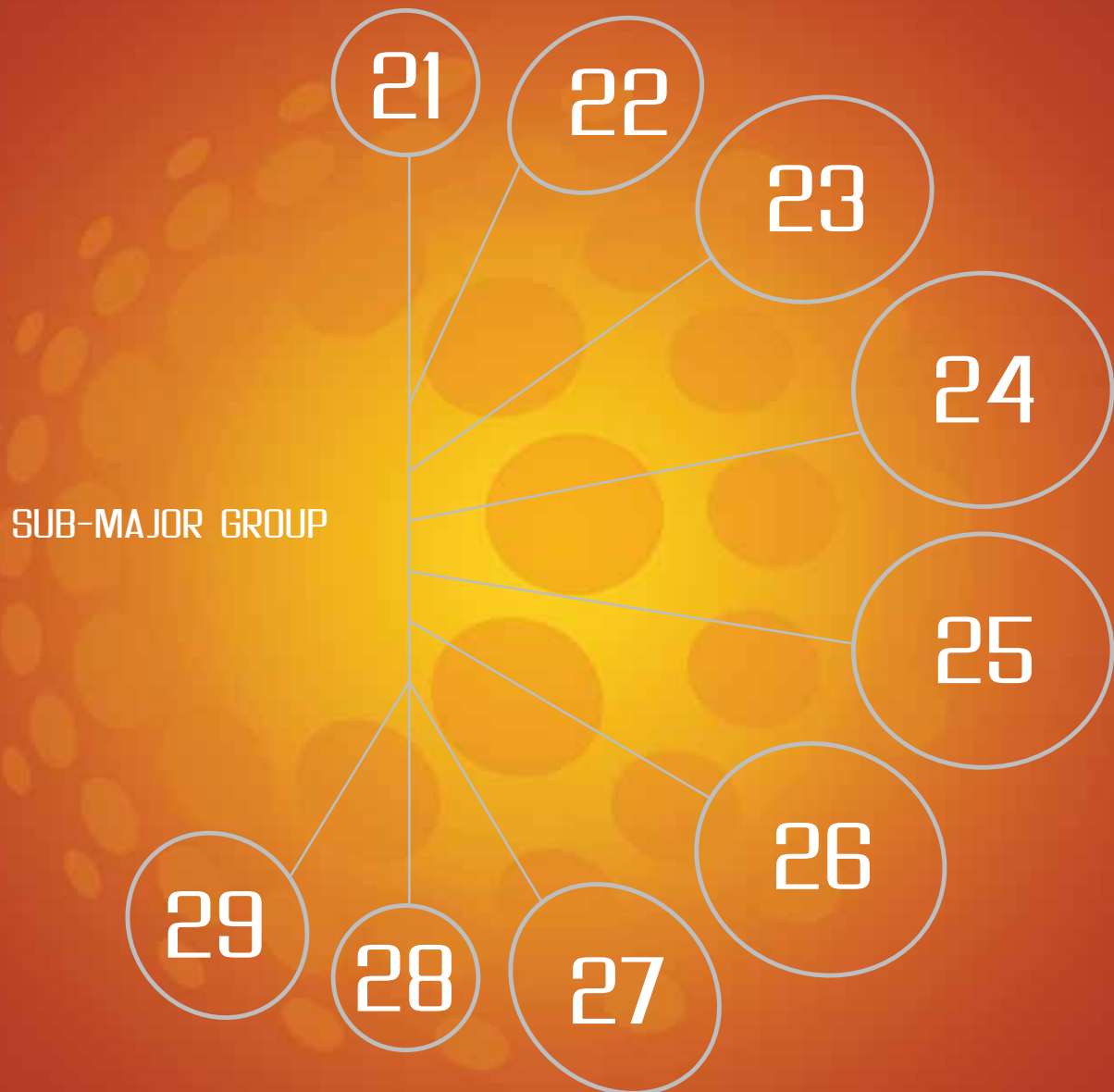
## **284 CREATIVE AND PERFORMING ARTISTS**

- 2841 Visual Artists
  - 2842 Musicians, Singers and Composers
  - 2843 Dancers and Choreographers
  - 2844 Film, Stage and Related Directors and Producers
  - 2845 Actors
  - 2846 Announcers on Radio, Television and Other Media
  - 2847 Clowns, Magicians, Acrobats and Related Professionals
  - 2848 Animal Keepers and Trainers
  - 2849 Creative and Performing Artists Not Elsewhere Classified
- 

## **29 REGULATORY GOVERNMENT PROFESSIONALS**

### **291 REGULATORY GOVERNMENT PROFESSIONALS**

- 2911 Professional Customs and Border Inspectors
- 2912 Professional Taxation and Excise Officials
- 2913 Professional Government Social Benefits Officials
- 2914 Professional Government Licensing Officials
- 2915 Professional Police Inspectors and Detectives
- 2916 Professional Civil Defence Officials
- 2919 Regulatory Government Professionals Not Elsewhere Classified



21. SCIENCE AND ENGINEERING PROFESSIONALS

22. HEALTH PROFESSIONALS

23. TEACHING PROFESSIONALS

24. BUSINESS AND ADMINISTRATION PROFESSIONALS

25. INFORMATION AND COMMUNICATIONS TECHNOLOGY PROFESSIONALS

26. LEGAL PROFESSIONALS

27. HOSPITALITY AND RELATED SERVICES PROFESSIONALS

28. SOCIAL AND CULTURAL PROFESSIONALS

29. REGULATORY GOVERNMENT PROFESSIONALS

## Description

**Increase the existing stock of knowledge, apply scientific or artistic concepts and theories, teach about the foregoing in a systematic manner, or engage in any combination of these three activities**

## Skill Level

**Most occupations in this major group require skills at the fourth level**

### SUB-MAJOR 21 SCIENCE AND ENGINEERING PROFESSIONALS

**Science and Engineering Professionals** conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to fields such as physics, astronomy, meteorology, chemistry, geophysics, geology, mathematics, statistics, electrotechnology, architecture, engineering and technology.

#### MINOR GROUP 211 PHYSICISTS, CHEMISTS AND RELATED PROFESSIONALS

**Physicists, Chemists and Related Professionals** conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to physics, astronomy, meteorology, chemistry, geology and geophysics.

#### UNIT GROUP 2111 PHYSICISTS AND ASTRONOMERS

**Physicists and Astronomers** conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to physics and astronomy in industrial, medical, military or other fields.

#### Tasks include:

- conducting research and improving or developing concepts, theories and operational methods related to physics and astronomy;
- conducting experiments, tests and analyses in fields such as mechanics, thermodynamics, optics, sonic, electricity, magnetism, electronics and nuclear physics, or astronomy;
- conducting experiments, tests and analyses of the structure and properties of matter in solid state and its behaviour under temperature, pressure, stress and other conditions;
- evaluating results of investigations and experiments and expressing conclusions, mainly using mathematical techniques and models;
- developing or improving industrial, medical, military and other practical applications of the principles and techniques of physics or astronomy;
- observing, analysing and interpreting celestial phenomena and developing methods and techniques to be used in fields such as navigation or space exploration;
- preparing scientific papers and reports;
- enhancing knowledge and coordinating work implementation; and
- performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 2111\)](#)

2111-01	Physicist
2111-02	Physicist, Theoretical
2111-03	Aerodynamicist
2111-04	Ballistician

## UNIT GROUP 2112 METEOROLOGISTS AND SEISMOLOGISTS

**Meteorologists and Seismologists** conduct research, improve or develop concepts, theories and operational methods related to the composition, structure and dynamics of the atmosphere and prepare detailed or long-term weather forecasts used in aviation, shipping, agriculture and other areas and for the information of the general public.

### Tasks include:

- a) issuing weather forecasts, weather warnings, monitoring and issuing information about earthquakes and tsunamis so that property damage and deaths can be reduced;
- b) analysing weather changes professionally and identifying impacts and measures to reduce the impacts, analysing meteorological charts and conducting research on weather phenomena to reduce the impact of bad weather;
- c) providing advisory services efficiently and effectively to meet customer needs and expectations of interested parties (stakeholders) to increase socio-economic activities for the people and country;
- d) investigating the direction and speed of air movements, pressures, temperatures, humidity and other phenomena such as cloud formation and precipitation, electrical disturbances or solar radiation;
- e) analysing and interpreting satellite photographs, remote sensing and other atmospheric phenomena and preparing weather maps and forecasts used in aviation, shipping, agriculture and other areas and for the information of the general public;
- f) preparing warnings relating to atmospheric phenomena such as storms or other hazards to life and property;
- g) studying climatic data and using statistical methods to determine and interpret climatic trends and predict changes;
- h) preparing scientific papers and reports;
- i) preparing data, information and advisory services regarding tsunamis and seismology;
- j) issuing early warning information about tremors and tsunamis;
- k) supervising the work of technicians and meteorological observers; and
- l) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 2112](#))

2112-01	Meteorological Officer, Grade C41
2112-02	Assistant Meteorological Officer, Grade C27
2112-03	Meteorologist
2112-04	Climatologist

## UNIT GROUP 2113 CHEMISTS

**Chemists** conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to chemistry, mainly to test, develop and improve materials, and industrial products and processes.

### Tasks include:

- a) managing adjustment tasks and film examination;
- b) monitoring the status of sanitation, food production safety, assisting in the planning, coordination and evaluation of food industry education and consumer education, providing technical support in food technology aspects in planning, implementing legislation, training and other needs;

- c) conducting experiments, tests and analyses to investigate chemical composition and energy and chemical changes in various natural, artificial or synthetic substances, materials and products;
- d) evaluating results of investigations and experiments and deriving conclusions;
- e) managing and directing chemical laboratories including the verification, classification, investigation and certification of products, standards or process specifications;
- f) developing practical applications of experimental and research findings;
- g) developing or improving pharmaceutical and other industrial materials, products and processes;
- h) developing and monitoring quality control procedures for manufacturers or users;
- i) preparing laboratory reports and scientific papers;
- j) enhancing understanding, coordinating and training laboratory technicians; and
- k) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 2113\)](#)

2113-01	Film Lab Officer, Grade C41
2113-02	Food Technology Officer, Grade C41
2113-05	Chemist
2113-06	Chemist, Rubber

#### **UNIT GROUP 2114 GEOLOGISTS AND GEOPHYSICISTS**

**Geologists and Geophysicists** conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to geology and geophysics in such fields as oil, gas and mineral exploitation, water conservation, civil engineering, telecommunications and navigation, and assess development projects and the effects of waste disposal on the environment.

##### **Tasks include:**

- a) conducting research and analysis of metals, metal source, clay, rocks, minerals and related main elements, coordinating quality control on the design for rock materials and minerals industries and training laboratory assistants;
- b) carrying out geological research and investigation, mapping and geological engineering studies and water sources as well as providing consultancy on the use and development of land;
- c) administering and conducting enforcement of the mines;
- d) studying the composition and structure of the earth's crust, examining rocks, minerals, fossil remains, etc to determine processes affecting the development of the earth, tracing evolution and establishing the nature and chronology of geological formations;
- e) interpreting research data and preparing geological reports, maps, charts and diagrams;
- f) applying results of research to assess development potential of mineral, gas and oil deposits and underground water resources;
- g) applying geological knowledge to problems encountered in civil engineering projects such as the construction of dams, bridges, tunnels and large buildings;
- h) investigating and measuring seismic, gravitational, electrical, thermal and magnetic forces affecting the earth;
- i) investigating and measuring optical and acoustic phenomena in the atmosphere;
- j) charting the earth's magnetic field and applying this and other collected data for purposes of broadcast and navigation;
- k) studying and measuring the physical properties of the sea and atmosphere and their inter-relationship such as the exchange of thermal energy;

- l) locating and determining the nature and extent of oil, gas and mineral deposits and of ground water resources using seismological, gravimetric, magnetic, electrical or radiometric methods;
- m) preparing laboratory reports and scientific papers;
- n) enhancing knowledge and coordinating work performance; and
- o) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 2114\)](#)

2114-01	Geology Officer (Geophysics/ Geology), Grade C41
2114-02	Mineral Officer, Grade C41
2114-06	Geophysicist
2114-07	Geologist

## **MINOR GROUP 212 MATHEMATICIANS, ACTUARIES AND STATISTICIANS**

**Mathematicians, Actuaries and Statisticians** conduct research, improve or develop mathematical, actuarial and statistical concepts, theories and operational models and techniques.

### **UNIT GROUP 2121 MATHEMATICIANS, ACTUARIES AND STATISTICIANS**

**Mathematicians, Actuaries and Statisticians** conduct research and improve or develop mathematical, actuarial and statistical concepts, theories, operational methods, and techniques, and advise on or engage in their practical application in such fields as engineering, business, social and other sciences.

#### **Tasks include:**

- a) performing tasks related to demographics, statistics and research information, insurance matters, compensation and social security and trust law matters, provident fund and pension fund schemes;
- b) managing the programmes and activities for collection, processing, analysis, reporting and dissemination of data in macroeconomic, trade, population, demography, labour, environment and other fields that are required from time to time for development planning and administration of the country;
- c) advising on or applying mathematical principles, models and techniques to a wide range of tasks in the fields of engineering, natural, social or life sciences;
- d) conducting logical analyses to resolve management problems, especially in terms of input-output effectiveness: formulating mathematical models of each problem, usually for programming and solution by computer;
- e) planning and organising surveys and other statistical collections, and designing questionnaires;
- f) evaluating, processing, analysing and interpreting statistical data and preparing them for publication;
- g) preparing scientific papers and reports;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating the work performance.

**Examples of the occupations classified here:** [\(refer to index, unit group 2121\)](#)

2121-01	Actuarial Officer, Grade W41
2121-02	Statistician, Grade E41
2121-04	Mathematician
2121-05	Mathematician, Applied Mathematics



## MINOR GROUP 213 LIFE SCIENCE PROFESSIONALS

**Life Science Professionals** apply knowledge gained from research into human, animal and plant life and their interactions with one another and the environment to develop new knowledge, improve agricultural and forestry production, and solve human health and environmental problems.

### UNIT GROUP 2131 BIOLOGISTS, BOTANISTS, ZOOLOGISTS AND RELATED PROFESSIONALS

**Biologists, Botanists, Zoologists and Related Professionals** conduct research, improve or develop concepts, theories and operational methods, and study living organisms and their interactions with one another and with the environment, and apply this knowledge to solve human health and environmental problems. They work in diverse fields such as botany, zoology, ecology, marine biology, genetics, immunology, pharmacology, toxicology, physiology, bacteriology and virology.

#### Tasks include:

- a) conducting research, improving or developing concepts, theories and operational methods in their respective fields;
- b) conducting field and laboratory experiments concerning all forms of life by identifying and classifying human, animal, insect or plant specimens, and studying their origins, development, chemical and physical forms, structures, compositions, and life and reproductive processes;
- c) studying and conducting experiments concerning the structure, development and characteristics of micro-organisms such as bacteria or viruses;
- d) studying all forms of plant/animal life and developing practical applications in fields such as agriculture and medicine;
- e) studying and conducting experiments concerning the structure and functions of living cells and the influence of physical and chemical factors upon normal and abnormal cells;
- f) studying the inter-relationships of animal and plant life and the environmental factors involved and offering professional advice in related disciplines;
- g) developing industrial, medical and other applications of knowledge in their respective fields;
- h) preparing laboratory reports and scientific papers;
- i) enforcing the law under the Wildlife Protection Act 76/72 and carrying out control over, research on and compilation of wildlife;
- j) enhancing knowledge, coordinating and training laboratory technicians; and
- k) performing related tasks.

**Examples of the occupations classified here:** ([refer to index, unit group 2131](#))

2131-01	Wildlife Officer, Grade G41
2131-02	Assistant Wildlife Officer, Grade G27
2131-03	Immunologist
2131-04	Microbiologist

### UNIT GROUP 2132 FARMING, FORESTRY AND FISHERIES ADVISERS

**Farming, Forestry and Fisheries Advisers** study, provide assistance and advice on farm, forestry and fisheries management, including cultivation, fertilisation, harvesting, soil erosion and composition, disease prevention, nutrition, crop rotation and marketing. They develop techniques for increasing productivity, and study and develop plans and policies for land and fisheries management.

**Tasks include:**

- a) planning, coordinating and carrying out all activities and programmes encompassing aspects of research, development, education, management and protection of fisheries resources to develop the country's fisheries industry; offering technical and engineering expertise for such purposes as vessel building and maintenance;
- b) planning, organising and controlling the forestry activities in line with the regulations and policies of the government;
- c) keeping abreast of the progress of methods and techniques of farming, forestry and fisheries;
- d) offering advice on ways of raising quality of output, increasing yield and measures to increase efficiency of operations and to conserve natural assets and the environment;
- e) visiting farms and advising on measures to deal with problems such as soil erosion or pest infestation;
- f) collecting data and estimating quantities and costs of materials and labour required for projects;
- g) organising demonstrations, giving lectures, writing and distributing materials to promote adoption of improved practices and techniques;
- h) applying knowledge of scientific principles and practices in order to identify and solve problems arising in the course of their work;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index, unit group 2132\)](#)

2132-01	Fisheries Officer, Grade G41
2132-02	Conservator of Forest, Grade G41
2132-09	Agricultural Officer
2132-10	Planting Adviser

**UNIT GROUP 2133 ENVIRONMENTAL PROTECTION PROFESSIONALS**

**Environmental Protection Professionals** study and assess the effects of human activity on the environment such as air, water and noise pollution, soil contamination, climate change, toxic waste and depletion and degradation of natural resources. They develop plans and solutions to protect, conserve, preserve, minimise and prevent further damage to the environment.

**Tasks include:**

- a) undertaking research in laboratories and in the field to increase scientific knowledge of living organisms; to discover new information; to test hypotheses; to solve problems in areas such as the environment, agriculture and health; and to develop new products, processes and techniques for pharmaceutical, agricultural and environmental use;
- b) gathering human, animal, insect and plant data and specimens, and studying their origins, development, chemical and physical forms, structures, compositions, and life and reproductive processes;
- c) examining living organisms using a variety of specialised equipment, instruments, technologies and techniques such as electron microscopes, telemetry, global positioning systems, biotechnology, satellite imaging, genetic engineering, digital imaging analysis, polymerase chain reaction and computer modelling;
- d) identifying, classifying, recording and monitoring living organisms and maintaining databases;

- e) writing scientific papers and reports detailing research and any new findings which are then made available to the scientific community in scientific journals or at conferences for scrutiny and further debate;
- f) designing and carrying out environmental impact assessments to identify changes caused by natural or human factors;
- g) providing advice to the government, organisations and businesses in areas such as conservation, management of natural resources, the effects of climate change and pollution; and
- h) enforcing the Environmental Quality Act 1974 and the regulations thereunder and the Exclusive Economic Zone Act 1984 and the regulations thereunder; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index, unit group 2133](#))

2133-01	Environmental Control Officer, Grade C41
2133-02	Agronomist
2133-03	Crop Research Scientist
2133-04	Agricultural Scientist

#### **UNIT GROUP 2134 PHARMACOLOGISTS, PATHOLOGISTS AND RELATED PROFESSIONALS**

**Pharmacologists, Pathologists and Related Professionals** conduct research, improve or develop concepts, theories and operational methods, and apply scientific knowledge relating to anatomy, biochemistry, biophysics, physiology, pathology or pharmacology in such fields as medicine, agriculture or industry.

##### **Tasks include:**

- a) studying and conducting concerning the forms, structures and other anatomical characteristics of living organisms;
- b) studying and conducting experiments concerning the chemical compositions and processes of living organisms;
- c) studying and conducting experiments concerning the life processes and functions of human, animal or plant organs, tissues, cells, glands and systems under normal and abnormal or exceptional conditions;
- d) studying and conducting experiments concerning the structures, development and characteristics of micro-organisms such as bacteria or viruses;
- e) studying and conducting experiments concerning the nature, causes and development of human, animal or plant diseases and disorders;
- f) studying and conducting experiments concerning the effects of drugs and other substances on the tissues, organs and physiological processes of human beings and animals, and improving existing or developing new drugs;
- g) developing industrial, medical and other applications of knowledge in their respective fields;
- h) preparing laboratory reports and scientific papers;
- i) enhancing knowledge, coordinating and training laboratory technicians; and
- j) performing related tasks.

**Examples of the occupations classified here:** ([refer to index, unit group 2134](#))

2134-01	Anatomist
2134-02	Biochemist
2134-03	Biochemist, Enzymes
2134-04	Biochemist, Clinical

## MINOR GROUP 214 ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY)

**Engineering Professional (Excluding Electrotechnology)** design, plan and organise the structure of testing, construction, installation and maintenance of machines and their components, and plant and production systems, and plan production schedules and work procedures to ensure engineering projects are undertaken safely, efficiently and in a cost effective manner.

### UNIT GROUP 2141 INDUSTRIAL AND PRODUCTION ENGINEERS

**Industrial and Production Engineers** plan, conduct research, design and oversee the construction, operation and maintenance process and installation of plants. They establish programmes for the coordination of manufacturing activities and assess the cost effectiveness and safety.

#### Tasks include:

- a) establishing standards and policies for installation, modification, quality control, testing, inspection and maintenance according to engineering principles and safety regulations;
- b) consulting with management and supervisory personnel and advising on planning and production methods;
- c) developing sophisticated factory automation and mechanisation projects and recommending long-term automation strategies;
- d) advising on methods to promote efficient, safe and economic utilisation of personnel, materials and equipment;
- e) making recommendations regarding methods of work and sequence of operations;
- f) making recommendations and supervising from the aspects of time and organisation of work;
- g) advising on the most efficient layout for the plant or establishment;
- h) identifying potential hazards and introducing safety procedures and devices;
- i) preparing and monitoring cost estimates and bills of quantities for architectural and construction projects;
- j) studying and advising on technological aspects of the manufacturing process;
- k) performing related tasks; and
- l) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** (*refer to index, unit group 2141*)

2141-01	Automation Engineer
2141-02	Robotics Engineer
2141-03	Industrial Engineer
2141-04	Production Engineer

### UNIT GROUP 2142 CIVIL ENGINEERS

**Civil Engineers** plan, conduct research, advise on, design and direct construction activity; manage the operation and maintenance of civil engineering structures; or study and advise on technological aspects of particular materials.

#### Tasks include:

- a) carrying out maintenance and upgrading of all buildings and public facilities and supervising engineering related issues;
- b) advising on and designing structures such as bridges, dams, docks, roads, airports, railways, pipelines, waste disposal and flood control systems, and industrial and other large buildings;
- c) determining and specifying construction methods, materials and quality standards, and directing construction work;

- d) establishing control systems to ensure efficient functioning of structures as well as safety and environmental protection;
- e) organising and directing site labour and the delivery of construction materials, plant and equipment needed for construction projects;
- f) administering contracts and verifying and certifying the satisfactory completion of construction;
- g) studying and advising on technological aspects of particular materials/processes or systems related to civil engineering work;
- h) maintaining technical liaison and consultancy with other relevant specialists;
- i) supervising the testing and commissioning of completed work; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index, unit group 2142\)](#)

2142-01	Engineer (Civil), Grade J41
2142-02	Executive Officer (Engineering), Grade 41
2142-10	Engineer
2142-11	Technologist

#### UNIT GROUP 2143 ENVIRONMENTAL ENGINEERS

**Environmental Engineers** conduct research, advise on, design and direct implementation of solutions to prevent, control or remedy negative impacts of human activity on the environment utilising a variety of engineering disciplines. They conduct environmental assessments of construction and civil engineering projects and apply engineering principles to pollution control, recycling and waste disposal.

##### Tasks include:

- a) studying the environmental impact of proposed construction projects;
- b) conducting hazardous waste management studies to evaluate the hazards, advise on treatment and prevention, and develop regulations to prevent mishaps;
- c) designing municipal water supply and industrial wastewater treatment systems as well as being aware of local and international environmental issues such as the effects of acid rain, ozone depletion, water pollution and air pollution from automobile exhausts and industrial sources;
- d) studying the effects of such factors as terrain, altitude, climatic conditions, sources of nutrition and predators on animal and plant life;
- e) investigating the structure of communities of organisms and predicting the effects of disturbances by humans or environmental changes;
- f) managing forest, recreational and natural resources to maximise their long-term commercial benefit for the community;
- g) researching into field crops and grasses and developing new or improved cultivation methods;
- h) researching into horticultural crops and developing new or improved cultivation methods;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index, unit group 2143\)](#)

2143-01	Environmental Engineer
2143-02	Sewerage and Sanitation Engineer
2143-03	Air Pollution Control Engineer
2143-04	Environmental Remediation Specialist

## UNIT GROUP 2144 MECHANICAL ENGINEERS

**Mechanical Engineers** conduct research and advise on design, and direct the production of machinery and equipment and industrial plant systems, and advise on and direct their functioning, maintenance and repairs, or study and advise on technological aspects of particular materials, products or processes.

### Tasks include:

- a) advising on and designing machinery and tools for manufacturing, mining, construction, agricultural work and other industrial purposes;
- b) advising on and designing steam, internal combustion and other non-electric motors and engines used for propulsion of locomotives, land vehicles or aircraft, or for driving industrial or other machinery;
- c) advising on and designing ship propulsion systems, power plants, heating and ventilation systems, steering gear, pumps and other mechanical equipment;
- d) advising on and designing hulls and superstructures of ships and other vessels;
- e) advising on and designing airframes, undercarriages and other equipment for aircraft;
- f) advising on and designing land vehicle bodies, suspension systems, brakes and other components;
- g) advising on and designing heating, ventilation and refrigeration systems and equipment;
- h) advising on and designing mechanical plants and equipment for the release, control and utilisation of nuclear energy;
- i) advising on and designing non-electrical parts or products such as word processors, computers, precision instruments, cameras and projectors;
- j) establishing control standards and procedures to ensure efficient functioning and safety of machinery, tools, motors, engines and industrial plants, equipment or systems;
- k) performing related tasks; and
- l) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index, unit group 2144](#))

2144-01	Engineer (Mechanical), Grade J41
2144-02	Assistant Engineer (Mechanical), Grade J29
2144-03	Mechanical Engineering Technologist
2144-04	Mechanical Engineer

## UNIT GROUP 2145 CHEMICAL ENGINEERS

**Chemical Engineers** conduct research and develop, design and advise on and direct commercial-scale chemical processes and production of various substances and items such as crude oil, petroleum derivatives, food and drink products, medicaments or synthetic materials, and direct maintenance and repair of industrial plants, or study and advise on technological aspects of particular materials, products or processes.

### Tasks include:

- a) conducting research, advising on, developing and designing commercial-scale chemical processes and equipment to refine crude oil and other liquids or gases, and to produce substances and items such as petroleum derivatives, explosives, food and drink products, medicament or synthetic materials;
- b) specifying relevant aspects of the construction of chemical manufacturing plants;
- c) specifying production methods, material and quality standards and ensuring that they conform to specifications;



- d) establishing control standards and procedures to ensure safety, environmental protection and efficiency in manufacturing operations and processes;
- e) locating and correcting malfunctions;
- f) organising and advising on maintenance and repair of existing equipment;
- g) studying and advising on technological aspects of particular materials, products or processes;
- h) maintaining good relations and holding technical consultancy with other relevant specialists;
- i) preparing analytical reports;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index, unit group 2145\)](#)

2145-01	Engineer (Chemical), Grade J41
2145-02	Chemical Engineering Technologist
2145-03	Chemical Process Technologist
2145-04	Chemical Engineer

#### **UNIT GROUP 2146 MINING ENGINEERS, METALLURGISTS AND RELATED PROFESSIONALS**

**Mining Engineers, Metallurgists and Related Professionals** conduct research, design and develop and maintain commercial-scale methods of extracting metals from their ores or minerals, water and oil or gas from the earth and of developing new alloys, ceramic and other materials, or study and advise on technological aspects of particular materials, products or processes.

##### **Tasks include:**

- a) conducting research, advising on, designing and developing new or improved methods to deal with engineering aspects of mining and oil, gas or water extraction;
- b) determining the most efficient methods of mining and extraction, types of machinery to be used, layout planning and directing construction of shafts and tunnels;
- c) determining drilling sites and devising methods of controlling the flow of water, oil or gas from wells;
- d) planning and directing storage, initial treatment and transport of water, oil or gas;
- e) establishing safety standards and procedures and first aid facilities, especially underground;
- f) conducting research, developing methods of extracting metals from their ores and advising on their application;
- g) investigating properties of metals and alloys, developing new alloys and advising on and supervising technical aspects of metal and alloy manufacture and processing;
- h) studying and advising on technological aspects of particular materials or processes;
- i) maintaining technical liaison and consultancy with other relevant specialists, in particular with geologists and geophysicists;
- j) preparing operating expense budget to evaluate the economic feasibility of production processes;
- k) performing related tasks; and
- l) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index, unit group 2146\)](#)

2146-01	Mining Engineer
2146-02	Metal Mining Engineer
2146-03	Coal Mining Engineer
2146-04	Non-Metal Mining Engineer

## UNIT GROUP 2149 ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY) NOT ELSEWHERE CLASSIFIED

This unit group covers Engineering Professionals (Excluding Electrotechnology) Not Elsewhere Classified in Minor Group 214: Engineering Professionals (Excluding Electrotechnology).

### Tasks include:

- a) quantity surveying of plans for bid, contract, contract assessment and other related tasks;
- b) reviewing the design and inspection of pressure vessels, hoisting machinery and safety devices for machinery used in construction and in the workplace;
- c) on-site inspection of building construction and engineering works;
- d) investigating complaints and accidents in the workplace and reporting and monitoring industrial health;
- e) implementing building construction surveying and surveying work prior to construction;
- f) designing devices used in various medical procedures, imaging systems such as magnetic resonance imaging, and devices for automating insulin injections or controlling body functions;
- g) designing components of optical instruments such as lenses, microscopes, telescopes, lasers, optical disc systems and other equipment that utilise the properties of light;
- h) designing, testing and coordinating the manufacture of explosive ordnance to meet military procurement specifications;
- i) designing and overseeing construction and operation of nuclear reactors and power plants and nuclear fuel reprocessing and reclamation systems;
- j) designing and developing nuclear equipment such as reactor cores, radiation shielding and associated instrumentation and control mechanisms;
- k) assessing damage and providing budget calculations for marine salvage operations;
- l) studying and advising on engineering aspects of particular manufacturing processes;
- m) identifying potential hazards and introducing safety procedures and devices;
- n) performing related tasks; and
- o) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: ([refer to index; unit group 2149](#))

2149-01	Quantity Surveyor, Grade J41
2149-02	Building Surveyor, Grade J41
2149-08	Quantity Surveyor
2149-09	Project Engineer

## MINOR GROUP 215 ELECTROTECHNOLOGY ENGINEERS

**Electrotechnology Engineers** conduct research and design, advise on, plan and direct the construction and operation of electronic, electrical and telecommunications systems, components, motors and equipment. They establish control systems to monitor the performance and safety of electrical and electronic assemblies.

## UNIT GROUP 2151 ELECTRICAL ENGINEERS

**Electrical Engineers** conduct research and advise on, design and direct the construction and operation of electrical systems, components, motors and equipment, and advise on and direct their maintenance and repair, or study and advise on technological aspects of electrical engineering materials, products and processes.

**Tasks include:**

- a) planning and designing the manufacture and installation of electric power equipment and facilities;
- b) determining the type and arrangement of circuits, transformers, circuit breakers, transmission lines and other equipment;
- c) advising on and designing systems for electrical motors, electric traction devices and other equipment or domestic electrical appliances;
- d) interpreting specifications, standards and regulations relating to electric power equipment and use;
- e) organising and managing resources used in electrical components, machines, appliances and equipment;
- f) establishing delivery and installation schedules for machines, switchgear, cables and fittings;
- g) supervising the operation and maintenance of power stations, transmission and distribution systems and industrial plants;
- h) establishing control standards and procedures to ensure efficient functioning and safety of electrical generating and distribution systems;
- i) locating and correcting malfunctions;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index, unit group 2151\)](#)

2151-01	Engineer (Electrical), Grade J41
2151-02	Assistant Engineer (Electrical), J29
2151-03	Electrical Engineering Technologist
2151-04	Electrical Engineer

**UNIT GROUP 2152 ELECTRONIC ENGINEERS**

**Electronic Engineers** conduct research on, design and direct the maintenance and repair of electronic systems. They study and advise on technological aspects of electronic engineering materials, products and processes.

**Tasks include:**

- a) advising on and designing electronic devices, circuits and systems used for computers, communications and control systems and other industrial applications;
- b) designing software especially embedded software to be used in such systems;
- c) developing apparatus and procedures to test electronic components, circuits and systems;
- d) supervising installation and certification of computer and telecommunications systems and ensuring proper control and protection methods;
- e) establishing control standards and procedures to ensure efficient functioning and safety of electronic systems, motors and equipment;
- f) locating and correcting malfunctions;
- g) organising and directing maintenance and repair of existing electronic systems, motors and equipment;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index, unit group 2152\)](#)

2152-01	Engineer (Electronics), Grade J41
2152-02	Assistant Engineer (Electronics), Grade J29
2152-03	Electronics Engineering Technologist
2152-04	Electronics Engineer

## UNIT GROUP 2153 TELECOMMUNICATIONS ENGINEERS

**Telecommunications Engineers** conduct research, design and direct the maintenance, repair of systems and telecommunications equipment. They study and advise on technological aspects of materials, products and processes in telecommunications engineering.

### Tasks include:

- a) advising on and designing electronic devices, circuits and systems used for computers, telecommunications and control systems and other industrial applications;
- b) specifying production or installation methods, materials, quality and safety standards and directing production or installation work of telecommunications products and systems;
- c) organising and directing maintenance and repair of existing telecommunications systems, motors and equipment;
- d) researching and advising on telecommunications equipment;
- e) planning and designing communications networks based on wired, fibre optic and wireless communication media;
- f) designing and developing signal processing algorithms and implementing these through appropriate choice of hardware and software;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index, unit group 2153](#))

2153-01	Telecommunications Engineer
2153-02	Telecommunications Engineer, Aerospace
2153-03	Telecommunications Engineer, Radar
2153-04	Telecommunications Engineer, Signal Systems

## MINOR GROUP 216 ARCHITECTS, PLANNERS, SURVEYORS AND DESIGNERS

**Architects, Planners, Surveyors and Designers** plan, advise on and improve or develop concepts, theories and operational methods, or apply existing knowledge of architecture, planning, surveying and design.

## UNIT GROUP 2161 BUILDING ARCHITECTS

**Building Architects** plan, advise on and design recreational, institutional, residential, commercial and industrial buildings, and plan and monitor their construction, maintenance and rehabilitation.

### Tasks include:

- a) planning, receiving and reviewing the project brief, visiting the project site, preparing drawings, sketch drawings, detailed designs, working drawings and specifications;
- b) developing new or improved architectural theories and methods;
- c) consulting with clients and making recommendations regarding type, style, size and other aspects of construction;
- d) designing buildings and preparing construction drawings and plans;
- e) identifying and finding the best solutions for problems regarding function and quality of interior environments of buildings and making the necessary designs, drawings and plans;
- f) inspecting construction work in progress to ensure compliance with plans, specifications and quality standards;

- g) planning layout and coordinating development of urban areas;
- h) planning and designing the development of land areas for projects such as parks, schools, institutions, airports, roadways and related projects, and for commercial, industrial and residential sites;
- i) preparing reports, site plans, working drawings, specifications and cost estimates for land development, showing location and details of proposals, including ground modelling, structures and vegetation;
- j) supervising the testing and certification of completed works;
- k) performing related tasks; and
- l) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index, unit group 2161\)](#)

2161-01	Architect, Grade J41
2161-02	Assistant Architectural Officer, Grade J29
2161-03	Architect
2161-04	Interior Architect

#### UNIT GROUP 2162 LANDSCAPE ARCHITECTS

**Landscape Architects** plan and design the recreational, layout of towns and landscapes, and plan and monitor their construction, maintenance and rehabilitation.

**Tasks include:**

- a) implementing development work design, maintenance, project oversight, designing development plans, public parks, landscapes and providing input to the development plan structures, guidelines and planning and projects carried out;
- b) consulting with clients and making recommendations regarding type, style, size and other aspects of construction;
- c) inspecting construction work in progress to ensure compliance with plans, specifications and quality standards;
- d) planning and designing the development of land areas for projects such as parks, schools, institutions, airports, roadways and related projects, and for commercial, industrial and residential sites;
- e) preparing reports, site plans, working drawings, specifications and cost estimates for land development, showing location and details of proposals, including ground modelling, structures and vegetation;
- f) supervising the testing and certification of completed works;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index, unit group 2162\)](#)

2162-01	Landscape Architect, Grade J41
2162-02	Assistant Landscape Architect, Grade J29
2162-03	Landscape Architect

#### UNIT GROUP 2163 PRODUCT AND GARMENT DESIGNERS

**Product and Garment Designers** design and develop products for manufacture and prepare designs and specifications of products for mass, batch and one-off production.

**Tasks include:**

- a) formulating design concepts for clothing, textiles, industrial, commercial products and jewellery;

- b) preparing sketches, diagrams, illustrations, plans, samples and models to obtain concept design;
- c) negotiating the design with clients, the management, and sales and manufacturing staff;
- d) selecting, specifying and recommending materials, production methods and finishes for production;
- e) detailing and documenting the selected design for production;
- f) preparing and determining prototypes and samples;
- g) preparing patterns, programmes and tools, and the manufacturing process;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index, unit group 2163](#))

2163-01	Commercial Product Designer
2163-02	Industrial Product Designer
2163-03	Fashion Designer
2163-04	Jewellery Designer

#### **UNIT GROUP 2164 TOWN AND TRAFFIC PLANNERS**

**Town and Traffic Planners** develop and advise on and design of recreational, institutional, residential, layout of towns, landscapes and traffic systems, and plan and monitor their construction, maintenance and repair.

##### **Tasks include:**

- a) planning, preparing, overseeing and coordinating development plan studies and development plans and preparing technical reports and advising on planning inclusive of layout plans;
- b) compiling and analysing sites and community data on geographical aspects, ecology of area, landforms, soils, vegetation, site hydrology, visual characteristics and man-made structures to formulate land use and development recommendations for the preparation of environmental impact statements;
- c) inspecting construction work in progress to ensure compliance with plans, specifications and quality standards;
- d) planning layout and coordinating development of urban areas;
- e) planning and designing the development of land areas for projects such as parks, schools, institutions, airports, roadways and related projects, and for commercial, industrial and residential sites;
- f) planning and advising to facilitate routing, control of roads and traffic systems, and safety;
- g) preparing reports, site plans, working drawings, specifications and cost estimates for land development, showing location and details of proposals, including ground modelling, structures and vegetation;
- h) supervising the testing and certification of completed works;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index, unit group 2164](#))

2164-01	Urban and Rural Planning Officer, Grade J41
2164-02	Assistant Urban and Rural Planning Officer, Grade J29
2164-03	Town Planner
2164-04	Urban and Rural Planner



## UNIT GROUP 2165 CARTOGRAPHERS AND SURVEYORS

**Cartographers and Surveyors** apply surveying methods and techniques to determine the exact position of natural and constructed features and boundaries of land, seas, underground areas and celestial bodies, and prepare or revise digital, graphic and pictorial representations of maps and charts, applying scientific and mathematical principles.

### Tasks include:

- a) carrying out surveying, i.e. standard for control traverse survey, control survey, party wall survey, land acquisition survey, urban and rural area survey, classes one and two surveys for issuing land titles, sports court measurements and accuracy probe survey;
- b) reviewing, surveying and describing the land surface for a variety of purposes, including map making, construction work or establishment of property boundaries;
- c) surveying seas, rivers and river beds, delineating underwater surfaces, noting exact positions of various features and making charts and maps to be used specifically in determining navigable waters and channels;
- d) analysing aerial and other photographs, satellite images and survey data to prepare and revise topographic maps and charts, utility maps and other thematic maps;
- e) studying and advising on technical, aesthetic and economic aspects of map production;
- f) supervising the preparation of plans, maps, charts and drawings to give pictorial representations and managing automated information systems;
- g) undertaking research and development of reconnaissance survey and photogrammetry system, cadastral (land tenure) systems and land information systems;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index, unit group 2165](#))

2165-01	Geospatialist, Grade J41
2165-02	Surveyor, Grade J41
2165-04	Cartographer
2165-05	Cartographer, Marine

## UNIT GROUP 2166 GRAPHIC AND MULTIMEDIA DESIGNERS

**Graphic and Multimedia Designers** design information content for visual and audio communication, publications and display using film, electronic, digital and other forms of visual and audio media. They create special effects, animation, or other visual images for use in computer games, movies, music videos, print media and advertisements.

### Tasks include:

- a) carrying out graphic design and multimedia work, exhibitions and publicity in visual form and display work related to art;
- b) creating designs for presentation and production props;
- c) coordinating, planning, preparing designs for publication materials trophies;
- d) formulating design concepts;
- e) preparing sketches, diagrams, illustrations, layouts and design concepts;
- f) designing complex graphics and animation;
- g) creating two- and three-dimensional images depicting objects in motion or illustrating a process, applying computer animation or modelling programme;
- h) negotiating design solutions with clients, the management, sales and production staff;

- i) detailing and documenting the selected design for production;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index, unit group 2166\)](#)

2166-01	Designer, Grade B41
2166-02	Web Designer
2166-03	Graphics and Sound Computer Artist
2166-04	Graphic Designer

#### **MINOR GROUP 217 SHIP, AIRCRAFT AND TRAIN/ LOCOMOTIVE CONTROLLERS**

**Ship, Aircraft and Train/ Locomotive Controllers** plan and improve or develop concepts, theories and operational methods, or perform technical functions to ensure safety and efficient transport movement and operations, and develop electrical, electromechanical and computerised air control systems.

##### **UNIT GROUP 2171 SHIP ENGINEERS**

**Ship Engineers** control and participate in the operation, maintenance and repair of electrical and electronic equipment and machinery on board, or perform related supporting functions.

##### **Tasks include:**

- a) controlling and participating in the operation, maintenance and repair of mechanical, electrical and electronic equipment and machinery on board;
- b) performing technical supervision of the installation, maintenance and repair of ship machinery and equipment to ensure compliance with specifications and regulations;
- c) coordinating tests on equipment and diagnosing faults;
- d) applying knowledge of principles and practices relating to ship machinery and equipment in order to identify and solve problems arising in the course of their work;
- e) inspecting and conducting maintenance and emergency repairs to engines, machinery and auxiliary equipment;
- f) watching over engine room, monitoring and noting performance of engines, machinery and auxiliary equipment;
- g) maintaining records of operation of engineering department;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2171\)](#)

2171-01	Ship Engineer
2171-02	Marine Engineer
2171-03	Ship Construction Engineer
2171-04	Hovercraft Architect

## UNIT GROUP 2172 SHIP DECK OFFICERS AND PILOTS

**Ship Deck Officers and Pilots** command and navigate ships and perform related functions in port.

### Tasks include:

- a) managing registration of ships, ship safety, safety of navigation, seafarers' and port affairs, maritime technical training, development projects as well as conducting studies and evaluation of international conventions and law of the sea;
- b) commanding and navigating the ship, seagoing or inland waterway vessels by supervising the ship's course and speed according to passage plan and safety;
- c) planning, supervising and coordinating deck and bridge watch on the vessel;
- d) navigating vessels into and out of ports and through straits and other waters where special knowledge and skill are required;
- e) ensuring safe and efficient loading and unloading of cargo and observance of safety regulations and procedures by crew and passengers;
- f) performing technical supervision of maintenance and repair of ship to ensure compliance with specifications and regulations;
- g) directing or arranging supply of ship stores and equipment, recruitment of crew and provision of other services (except food) for arriving vessels;
- h) managing and maintaining inventory, records and documentation;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2172](#))

2172-01	Marine Officer, Grade A41
2172-02	Assistant Marine Officer, Grade A29
2172-03	Ship Captain
2172-04	Hovercraft Pilot

## UNIT GROUP 2173 AIRCRAFT PILOTS AND RELATED PROFESSIONALS

**Aircraft Pilots and Related Professionals** control the operation of mechanical, electrical and electronic equipment in order to navigate aircraft and perform pre-flight and in-flight tasks.

### Tasks include:

- a) giving in-flight instruction, supervising solo flights, accompanying students on flight training and demonstrating techniques for controlling aircraft;
- b) applying knowledge of principles and practices of flying in order to identify and solve problems arising in the course of their work;
- c) examining maintenance records and conducting inspections to ensure that aircraft are mechanically sound, maintenance has been performed and all equipment is operational;
- d) signing necessary certificates and maintaining official records of flight;
- e) obtaining pre-flight briefings and clearances and communicating with air traffic or flight control during flight;
- f) flying public or private aircraft, planning, supervision, testing, modifying flight charts, taking aerial photography and managing pilot examinations;
- g) issuing pilot licences, gathering information from researchers on aircraft accidents and damage and technical data of all aircraft;
- h) carrying out aircraft inspection;
- i) examining and approving the establishment of airlines, issuing certificates of approval for aircraft, conducting research on the breakdown of public aircraft and participating in the investigation of aircraft accidents and preparing reports;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index, unit group 2173](#))

2173-01	Pilot/ Pilot Examiner, Grade A41
2173-02	Aircraft Examiner, Grade A41
2173-04	Pilot
2173-05	Flight Navigator

#### UNIT GROUP 2174 AIR TRAFFIC CONTROLLERS

**Air Traffic Controllers** direct aircraft movements in the air and on the ground using radio, radar and lighting systems, and provide information relevant to the operation of aircraft.

**Tasks include:**

- directing aircraft approaching and leaving the airport and controlling their movement on the ground/ airport and directing taxiing, take-offs and landings;
- directing and controlling aircraft movements in the air using radar or non-radar procedures and directing aircraft by radio;
- checking flight plans, position reports, flight levels, estimated arrival times at reporting points or destinations and authorising changes of flight levels and altitudes;
- informing flight crew and operations staff about weather conditions, operational facilities, flight plans and air traffic;
- controlling the operation of airport lighting systems such as runway and approach lights and aerodrome beacons;
- applying knowledge of principles and practices of air traffic control in order to identify and solve problems arising in the course of their work;
- initiating and organising emergency, search and rescue services when aircraft are in distress;
- performing related tasks; and
- enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2174](#))

2174-01	Air Traffic Control Officer, Grade A41
2174-02	Assistant Air Traffic Control Officer, Grade A29
2174-03	Air Traffic Controller

#### UNIT GROUP 2175 TRAIN/ LOCOMOTIVE CONTROLLERS

**Train/ Locomotive Controllers** direct train/ locomotive movements on the ground using radio, radar and lighting systems, and provide information relevant to the operation of the train/ locomotive.

**Tasks include:**

- directing and controlling train/ locomotive movements;
- applying knowledge of principles and practices of train/ locomotive traffic control in order to identify and solve problems arising in the course of their work;
- initiating and organising emergency, search and rescue services when trains/ locomotives are in distress;
- performing related tasks; and
- enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: [\(refer to index; unit group 2175\)](#)

2175-01	Railway and Locomotive Operation Officer
2175-02	Railway and Locomotive Operation Controller
2175-03	Permanent-Way Inspector (Railways)

#### UNIT GROUP 2179 TRANSPORT CONTROLLERS NOT ELSEWHERE CLASSIFIED

This unit group covers Transport Controllers Not Elsewhere Classified in Minor Group 217: Ship, Aircraft and Train/ Locomotive Controllers.

**Tasks include:**

- a) receiving and dispatching cargo and mail;
- b) supervising and distributing weights;
- c) performing related tasks; and
- d) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: [\(refer to index; unit group 2179\)](#)

2179-01	Load Sheet Officer
2179-02	Shipping Executive
2179-03	Logistics Executive
2179-04	Air Cargo Officer

#### MINOR GROUP 218 MINING, MANUFACTURING AND CONSTRUCTION PROFESSIONALS

**Mining, Manufacturing and Construction Professionals** conduct research and improve or develop concepts, theories and operational methods, or apply existing knowledge in such fields as mining, manufacturing and construction.

#### UNIT GROUP 2181 MINING PROFESSIONALS

**Mining Professionals** conduct research and improve or develop concepts, theories and operational methods, or apply existing knowledge concerning the mining activities such as extracting coal, ore, stone, clay and other solid minerals from the earth.

**Tasks include:**

- a) conducting research, developing methods and coordinating activities concerning the extraction of minerals from mines and stone, or slate and clay from quarries;
- b) ensuring the efficient use of resources and the fulfilment of production quotas;
- c) studying and advising on technological aspects of particular materials or processes;
- d) controlling expenditure;
- e) establishing and supervising operational and administrative procedures;
- f) overseeing the application of work safety and related procedures;
- g) overseeing the selection, training and performance of staff;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: [\(refer to index; unit group 2181\)](#)

2181-01	Mining Executive
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## UNIT GROUP 2182 MANUFACTURING PROFESSIONALS

**Manufacturing Professionals** conduct research and improve or develop concepts, theories and operational methods, or apply existing knowledge concerning the production of food, paper, sawmill, warehouse as well as quality assurance.

### Tasks include:

- a) studying and advising on technological aspects of particular materials or processes;
- b) establishing and supervising operational and administrative procedures;
- c) overseeing the application of work safety and related procedures;
- d) overseeing the selection, training and performance of staff;
- e) negotiating with suppliers, customers and other organisations;
- f) representing the department in its dealings with other divisions of the enterprise or with external bodies;
- g) ensuring all production processes fall within the manufacturing specifications and product characteristics adhere to the company's standard document;
- h) implementing production plan through subordinates and ensuring that utilisation of manpower, machine and equipment is optimised;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2182\)](#)

2182-01	Manufacturing Executive
2182-02	Quality Assurance Executive
2182-03	Quality Assurance Analyst
2182-04	Quality Control Executive

## UNIT GROUP 2183 CONSTRUCTION PROFESSIONALS

**Construction Professionals** conduct research and improve or develop concepts, theories and operational methods, or apply existing knowledge concerning construction projects.

### Tasks include:

- a) conducting research, developing methods and coordinating activities concerning the construction of buildings, dams, highways, pipelines and related construction projects;
- b) studying construction procedures based on starting and completion times and staffing requirements for each phase of construction, based on knowledge of available tools and equipment and various building methods;
- c) studying and advising on technological aspects of particular materials or processes;
- d) establishing and supervising operational and administrative procedures;
- e) overseeing the application of work safety and related procedures;
- f) overseeing the selection, training and performance of staff;
- g) representing the department in its dealings with other divisions of the organisation or with external bodies;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2183\)](#)

2183-01	Construction Executive
2183-02	Project Executive
2183-03	Site Executive



## SUB-MAJOR 22 HEALTH PROFESSIONALS

**Health Professionals** conduct research, improve or develop concepts, theories and operational methods, or apply knowledge relating to fields such as medicine, nursing and midwifery, dentistry, pharmacy, traditional and complementary medicine, veterinary and other health professionals.

### MINOR GROUP 221 MEDICAL DOCTORS

**Medical Doctors** study, diagnose, treat and prevent illnesses, infections, injuries and other physical and mental impairments in humans through the application of the principles and procedures of modern medicine. They plan, supervise and evaluate the implementation of health care and treatment, and conduct medical education and research activities.

#### UNIT GROUP 2211 GENERALIST MEDICAL PRACTITIONERS

**Generalist Medical Practitioners** diagnose, treat and prevent illnesses, infections, injuries and other physical and mental impairments and maintain general health in humans through application of the principles and procedures of modern medicine. They are responsible for the provision of continuing and comprehensive medical care to individuals, families and communities.

##### Tasks include:

- a) examining and treating patients, managing treatment and examination of pregnant women and delivering babies, inspecting bodies and preparing reports, performing on-call duty and delivering lectures;
- b) examining the patients to determine the nature of infections or illnesses;
- c) conducting medical examinations and making diagnoses;
- d) prescribing medicine and treating diagnosed illnesses, disorders or injuries;
- e) giving advice on and applying preventive medicine methods and treatments;
- f) participating in the development and implementation of public health laws and regulations to safeguard and promote the health of a community;
- g) teaching medical students and other health sciences students, medical specialists and other health professionals;
- h) preparing scientific papers and reports;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2211\)](#)

2211-01	Medical Officer, Grade UD41
2211-02	Instructor, Grade U41
2211-04	Medical Doctor
2211-05	Medical Officer

#### UNIT GROUP 2212 SPECIALIST MEDICAL PRACTITIONERS

**Specialist Medical Practitioners** diagnose, treat and prevent illnesses, infections, injuries and other physical and mental impairments in humans, using specialised testing, diagnostic, medical, surgical, physical and psychiatric techniques through application of the principles and procedures of modern medicine. They specialise in certain disease categories or methods of treatment and may conduct medical education and research in their chosen areas of specialisation.

##### Tasks include:

- a) conducting medical examinations and making diagnoses;

- b) giving specialised medical or surgical treatment for particular types of illnesses, disorders or injuries;
- c) giving advice on and applying preventive medicine methods and treatments;
- d) participating in the development and implementation of public health laws and regulations for safeguarding and promoting the health of a community;
- e) teaching medical students and other health sciences students, medical specialists and other health professionals;
- f) preparing scientific papers and reports;
- g) specialising in diagnostic evaluation, rehabilitative and reablement services and research related to hearing;
- h) assisting patients under medical direction to overcome or minimise the effects or defects and disorders of speech;
- i) treating the blind;
- j) fixing all kinds of orthotic devices;
- k) making splints with thermoplastic materials;
- l) examining the patients to determine the diseases;
- m) writing specifications for artificial limbs or other appliances and helping to fit them and explaining their use;
- n) performing related tasks; and
- o) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2212\)](#)

2212-01	Ear, Nose and Throat Specialist
2212-02	Heart Specialist
2212-03	Eye Specialist
2212-04	Anaesthetist

## **MINOR GROUP 222 NURSING AND MIDWIFERY PROFESSIONALS**

**Nursing and Midwifery Professionals** provide treatment and care for people who are physically or mentally ill, disabled or infirm, and others in need of care due to potential risks to health including before, during and after childbirth. They are responsible for the planning, management and evaluation of the care of patients.

### **UNIT GROUP 2221 NURSING PROFESSIONALS**

**Nursing Professionals** provide treatment, support and care for people who are in need of nursing care due to the effects of ageing, illness, injury or other physical or mental impairment, or potential risks to health.

#### **Tasks include:**

- a) providing nursing care, treatment and advice to the ill, injured, disabled and others in need of such care;
- b) examining patients to determine the nature of their diseases;
- c) conducting medical examinations and making diagnoses;
- d) prescribing and giving treatment for diagnosed illnesses, disorders or injuries;
- e) giving specialised medical or surgical treatment for particular types of illnesses, disorders and injuries;
- f) giving advice on and applying preventive medicine methods and treatments;
- g) participating in the formulation and implementation of public health laws and regulations to safeguard and promote the health of a community;
- h) teaching medical students and other health sciences students, medical specialists and other health professionals;
- i) preparing scientific papers and reports;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2221\)](#)

2221-01	Nurse, Grade U41
2221-02	Instructor (Health Science), Grade U41
2221-03	Professional Nurse
2221-04	Clinical Nurse

#### **UNIT GROUP 2222 MIDWIFERY PROFESSIONALS**

**Midwifery Professionals** deliver babies, provide ante-natal and post-natal care and advise parents on the care of infants.

**Tasks include:**

- a) advising expectant mothers on appropriate diet, exercises and conduct during the course of pregnancy and to facilitate childbirth, and noting their general health and progress;
- b) delivering babies, or, more often, assisting doctors in deliveries;
- c) assessing progress during pregnancy and childbirth, managing complications and recognising symptoms requiring referral to a medical doctor specialising in obstetrics;
- d) monitoring the health status of newborns, managing complications and recognising symptoms requiring referral to a medical doctor specialising in neonatology;
- e) monitoring pain and discomfort experienced by women during labour and alleviating pain using a variety of therapies, including the use of painkillers;
- f) attending to mothers in the post-natal period to supervise their recovery, checking on babies' progress and advising parents on the care of infants;
- g) conducting health education classes and seminars to promote the health of mothers and infants;
- h) reporting births to government authorities;
- i) conducting research on midwifery practices and procedures and disseminating findings through scientific papers and reports;
- j) planning and conducting midwifery education activities in clinical and community settings;
- k) advising on birth control methods;
- l) participating in the formulation and implementation of public health laws and regulations for safeguarding and promoting the health of a community;
- m) preparing scientific papers and reports;
- n) performing related tasks; and
- o) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2222\)](#)

2222-01	Professional Midwife
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## MINOR GROUP 223 TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS

**Traditional and Complementary Medicine Professionals** prevent, diagnose and treat illnesses, infections, injuries and other physical and mental impairments and maintain general health in humans by applying knowledge, skills and practices acquired through extensive study of the theories, beliefs and experiences originating from specific cultures.

### UNIT GROUP 2231 TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS

**Traditional and Complementary Medicine Professionals** apply traditional medicine knowledge to the prevention, diagnosis and treatment of human illnesses.

**Tasks include:**

- a) prescribing for and treating diagnosed illnesses, disorders or injuries;
- b) examining patients, making diagnoses and treating illnesses and injuries using herbs, medicinal plants and other traditional techniques used in the community;
- c) advising the community and individuals on a proper diet and conduct to preserve or improve health and well-being;
- d) participating in the formulation and implementation of public health laws and regulations to safeguard and promote the health of a community;
- e) teaching medical students and other health sciences students, medical specialists and other health professionals;
- f) preparing scientific papers and reports;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2231](#))

2231-01	Professional Traditional Medical Practitioner
2231-02	Traditional Medical Specialist
2231-03	Acupuncturist
2231-04	Homeopath

## MINOR GROUP 224 PARAMEDICAL PRACTITIONERS

**Paramedical Practitioners** conduct research and improve or develop concepts, theories and operational methods, or apply knowledge in emergency medicine for the prevention, diagnosis and treatment of human illnesses.

### UNIT GROUP 2241 PARAMEDICAL PRACTITIONERS

**Paramedical Practitioners** apply emergency medicine knowledge for the prevention, diagnosis and treatment of human illnesses.

**Tasks include:**

- a) providing emergency on-scene treatment, stabilising or saving patients and, when appropriate, transporting ill or injured patients to emergency medical and surgical treatment facilities such as a hospital and trauma centre;
- b) prescribing for and treating diagnosed illnesses, disorders or injuries;
- c) advising the community and individuals on a proper diet and conduct to preserve or improve health and well-being;
- d) participating in the formulation and implementation of public health laws and regulations to safeguard and promote the health of a community;
- e) teaching medical students and other health sciences students, medical specialists and other health professionals;

- f) preparing scientific papers and reports;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2241](#))

2241-01	Paramedic
2241-02	Primary Care Paramedic
2241-03	Clinical Officer (Paramedical)
2241-04	Feldscher

## **MINOR GROUP 225 VETERINARIANS**

**Veterinarians** conduct research, improve or develop concepts, theories and operational methods and diagnose, prevent and treat diseases, injuries and dysfunctions of animals. They may provide care to a wide range of animals or specialise in the treatment of a particular animal group, or provide professional services to commercial firms producing biological and pharmaceutical products.

### **UNIT GROUP 2251 VETERINARIANS**

**Veterinarians** diagnose, prevent and treat diseases, injuries and dysfunctions of animals. They may provide care to a wide range of animals or specialise in the treatment of a particular animal group or in a particular speciality area, or provide professional services to commercial firms producing biological and pharmaceutical products.

#### **Tasks include:**

- a) controlling and treating animal diseases;
- b) planning and carrying out maintenance work and improving the quality of livestock;
- c) enforcing the law on the import of products of animals, monitoring of quarantine centres;
- d) administering surgical or medical veterinary treatment;
- e) rendering obstetric services to animals;
- f) testing dairy cattle and other animals and inoculating animals against diseases;
- g) advising on hygiene, feeding, breeding and care of animals;
- h) inspecting quality, purity and safety of food made wholly or partly from raw materials of animal origin intended for human consumption;
- i) assisting in epidemiological, radiological and other surveillance of animal health;
- j) performing autopsies to determine the cause of death;
- k) preparing scientific papers and reports;
- l) performing related tasks; and
- m) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2251](#))

2251-01	Veterinary Officer, Grade G41
2251-02	Assistant Veterinary Officer, Grade G27
2251-03	Veterinarian
2251-04	Veterinary Epidemiologist

## MINOR GROUP 226 OTHER HEALTH PROFESSIONALS

**Other Health Professionals** conduct research, improve or develop concepts, theories and operational methods, and apply scientific knowledge related to medicine, dentistry, pharmacy, environmental health and hygiene, occupational safety and health, physiotherapy, nutrition and rehabilitation therapies.

### UNIT GROUP 2261 DENTISTS

**Dentists** diagnose, treat and prevent diseases, injuries and abnormalities of the teeth, mouth, jaws and associated tissues by applying the principles and procedures of modern dentistry. They use a broad range of specialised diagnostic, surgical and other techniques to promote and restore oral health.

#### Tasks include:

- a) providing dental treatment;
- b) examining teeth, gums, jaws and other oral tissues using dental and X-ray equipment;
- c) making diagnoses, advising on and giving the necessary dental treatment;
- d) cleaning and filling cavities and extracting decayed or deformed teeth;
- e) constructing inlays and crowns to replace teeth;
- f) designing, constructing and fitting complete and partial dentures, orthodontic and other appliances and performing bridge work;
- g) giving surgical, medical and other forms of treatment for particular types of dental and oral diseases and disorders;
- h) participating in public activities to maintain or improve standards of oral health and dental care;
- i) monitoring dental health exhibitions and providing guidance to staff;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2261](#))

2261-01	Dental Officer, Grade U41
2261-02	Instructor (Dental Nurse), Grade U41
2261-04	Dentist
2261-05	Dentist, Paedodontistry

### UNIT GROUP 2262 PHARMACISTS

**Pharmacists** store and dispense medicine and offer consultation on the use of the medicine and its effects as per the prescription of a medical doctor and other health professional. They assist in research, preparation of tests and monitor medical therapy to enhance human health.

#### Tasks include:

- a) carrying out regulatory activities, i.e. analysing the content of medicine, cosmetics and traditional medicine, and their registration and licensing activities;
- b) checking prescriptions to ensure that recommended dosages are not exceeded and usage instructions are understood by the patient and advising on the possibility of incompatible drugs;
- c) dispensing drugs in hospitals or selling them in pharmacies;
- d) keeping prescription files and recording issue of narcotics, poisons and drugs;
- e) conducting research to develop or improve pharmaceuticals, cosmetics and related chemicals;



- f) determining the most suitable packaging for medical substances to avoid damage and facilitate storage and distribution;
- g) preparing scientific papers and reports;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2262\)](#)

2262-01	Pharmacy Officer, Grade U41
2262-02	Assistant Pharmacy Officer, Grade U29
2262-03	Pharmacist
2262-04	Industrial Pharmacist

#### UNIT GROUP 2263 ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND HYGIENE PROFESSIONALS

**Environmental and Occupational Health and Hygiene Professionals** assess, plan and conduct programmes to identify, monitor and control environmental factors that can potentially affect human health to ensure safe and healthy workplaces, and to prevent disease or injury caused by chemical, physical, radiological and biological agents or ergonomic factors.

**Tasks include:**

- a) inspecting business and residential premises and public areas to detect unsanitary conditions and health hazards;
- b) investigating and preparing reports on all cases of infectious diseases;
- c) developing, implementing and reviewing programmes and policies to minimise the risk of environmental and occupational hazards;
- d) giving advice on environment sanitation problems and techniques;
- e) promoting preventive and corrective measures such as control of disease carrying organisms and harmful substances in the air, hygienic food handling, proper disposal of waste and cleaning of public places;
- f) organising campaigns, giving lectures and distributing materials to promote adoption of improved practices and techniques;
- g) coordinating compensation, rehabilitation and return to work of injured workers;
- h) applying hygiene and sanitation principles and practices in order to identify and solve problems arising in the course of work;
- i) preparing and submitting reports;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2263\)](#)

2263-01	Assistant Environmental Health Officer/ Environmental Health Officer, Grade U29
2263-02	Labour Affairs Officer - Occupational Safety and Health
2263-03	Sanitarian
2263-04	Hazardous Waste Management Technologist

## UNIT GROUP 2264 PHYSIOTHERAPISTS

**Physiotherapists** assess, plan and conduct rehabilitative programmes that improve or restore human motor functions, enhance movement ability, relieve pain syndromes, and treat or prevent physical malfunction associated with injuries, diseases and other impairments. They apply a broad range of physical therapies and techniques such as movement, ultrasound, heating, laser and other techniques.

### Tasks include:

- a) providing scheduled physiotherapy treatment to patients;
- b) providing advice to communities and individuals about proper posture to prevent injury and strengthen muscles;
- c) conducting inspections to make diagnoses of disorders of bones, muscles and the circulatory system or the nervous system to determine the appropriate treatment;
- d) massaging clients to improve blood circulation, soothe or stimulate nerves, facilitate elimination of waste matter, stretch contracted tendons and produce other therapeutic effects;
- e) applying physiotherapy and related techniques as part of the physical or mental treatment of disabled persons;
- f) establishing appropriate treatment for the patient;
- g) performing adjustments of the spinal joints and extremities using hands or specialist equipment;
- h) performing soft tissue therapy, such as massage;
- i) educating and advising patients on rehabilitation exercises to aid long-term recovery and ensure health is maintained;
- j) participating in the formulation and implementation of public health laws and regulations for safeguarding and promoting the health of a community;
- k) teaching medical students and other health sciences students, medical specialists and other health professionals;
- l) preparing scientific papers and reports;
- m) performing related tasks; and
- n) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2264](#))

2264-01	Medical Rehabilitation Officer, Grade U41
2264-02	Instructor (Physiotherapy), Grade U41
2264-04	Physiotherapist
2264-05	Massage Therapist

## UNIT GROUP 2265 DIETICIANS AND NUTRITIONISTS

**Dieticians and Nutritionists** plan and supervise the preparation of diets for individuals or groups, supervise and evaluate health programmes and assist in appraising the various factors related to nutrition and food problems in the community.

### Tasks include:

- a) performing tasks related to the management and monitoring of clinical dietetics and community services, planning and preparing nutritious and appropriate food based on the hospital diet manual, and advisory services to patients who require therapeutic diets;
- b) providing nutrition assessments, education, research and training;
- c) collecting, managing and assessing data relating to health and nutritional status of individuals and groups;
- d) monitoring food intake and quality to provide nutritional care;

- e) planning and directing the preparation of therapeutic and other diets/menus for individuals or groups in hospitals, institutions and other establishments;
- f) participating in nutrition education programmes and nutrition rehabilitation activities;
- g) advising on nutrition aspects of community food issues and health programmes;
- h) keeping abreast of knowledge in related fields and maintaining contacts with appropriate professionals;
- i) preparing educational materials and giving talks and lectures on diet and nutrition;
- j) preparing scientific papers and reports;
- k) participating in the formulation and implementation of public health laws and regulations to safeguard and promote the health of a community;
- l) teaching medical students and other health sciences students, medical specialists and other health professionals;
- m) performing related tasks; and
- n) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2265](#))

2265-01	Dietetics Officer, Grade U41
2265-02	Dietician
2265-03	Hospital Dietician
2265-04	Public Health Dietician

#### **UNIT GROUP 2266 AUDIOLOGISTS AND SPEECH THERAPISTS**

**Audiologists and Speech Therapists** evaluate, manage and treat physical disorders affecting human hearing, speech and communication. They prescribe corrective devices or rehabilitative therapies for hearing loss, speech disorders, and related sensory and neural problems and provide counselling on hearing and safe communication.

##### **Tasks include:**

- a) administering auditory tests for infants, children and adults;
- b) interpreting and reporting test results;
- c) developing and improving test techniques;
- d) advising on the selection, fitting and evaluation of hearing aids;
- e) researching new advances in hearing aid technology, such as digital hearing aids;
- f) testing and maintaining implanted devices, such as cochlear implants;
- g) operating audiometric equipment;
- h) conducting research into disorders affecting hearing and balance;
- i) managing audiology services, including monitoring and improving the quality of service provided;
- j) supervising support staff;
- k) participating in the development and implementation of public health laws and regulations to safeguard and promote the health of a community;
- l) teaching medical students and other health sciences students, medical specialists and other health professionals;
- m) preparing scientific papers and reports;
- n) performing related tasks; and
- o) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2266](#))

2266-01	Audiologist
2266-02	Speech Therapist
2266-03	Orthoepist
2266-04	Orthophonist

## UNIT GROUP 2267 OPTOMETRISTS AND OPHTHALMIC OPTICIANS

**Optometrists and Ophthalmic Opticians** examine and treat disorders of the eyes and visual system and advise on eye care and prescribe optical aids or other therapies.

### Tasks include:

- a) carrying out eye examinations to detect visual function anomalies;
- b) treating and managing these anomalies using glasses, contact lenses, prisms, visual therapy and low vision devices as well as being a professional consultant in colour vision problems in the industry and in operation of vehicles, and offering advice to meet the needs and expectations of stakeholders;
- c) examining eyes and performing vision tests to determine the nature and extent of vision abnormalities;
- d) prescribing spectacles and contact lenses or other treatment to improve vision;
- e) advising on the proper use and care of spectacles and contact lenses, appropriate lighting for work or reading and other visual aids;
- f) fitting prescribed lenses into frames and adjusting frames or contact lenses on customers;
- g) referring customers with symptoms of ocular diseases to a medical specialist;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2267](#))

2267-01	Optometry Officer, Grade U41
2267-02	Optometrist
2267-03	Optician
2267-04	Ophthalmic Optician

## UNIT GROUP 2268 OCCUPATIONAL THERAPISTS

**Occupational Therapists** help people of all ages who have physical, mental or social problems to adapt to any aspect of their life in order to lead more productive, independent and meaningful lives. Problems may have been from birth, caused by injury, illness, disability or ageing.

### Tasks include:

- a) assessing the condition/injury of the patient and disability affecting his functions;
- b) encouraging the patient to be independent in daily activities including in his mobility, personal care and spiritual activities;
- c) conducting educational programmes for the patient and his family as a preventive measure against complications and disability as well as optimal maintenance of the patient's ability to function;
- d) providing psychological support to motivate the patient;
- e) conducting training in social skills to improve the patient's ability to interact with the community;
- f) encouraging patients to take part in leisure activities and appropriate sports;
- g) designing and making orthotic devices / splints to support the patient's ability to function;
- h) designing and making pressure garments for treatment of scars / keloids, oedema, etc.;
- i) submitting a report on the evaluation, treatment plan and progress of the patient to medical officers and other relevant parties;
- j) operating a daily centre for patients experiencing physical and psychosocial problems including monitoring and maintenance of their ability to function;

- k) managing a support group for patients to share their problems;
- l) performing related tasks; and
- m) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 2268](#))

2268-01	Occupational Therapist
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#### **UNIT GROUP 2269 HEALTH PROFESSIONALS NOT ELSEWHERE CLASSIFIED**

This unit group covers Health Professionals Not Elsewhere Classified in Minor Group 226: Other Health Professionals.

#### **Tasks include:**

- a) reviewing and examining applications for radiographic examination;
- b) providing a clear explanation to the patient about the examination and the necessary preparations in accordance with the instruction given;
- c) taking samples from patients and animals for research;
- d) preparing the test and storage of reagent, media, standard solution and other suspensions;
- e) submitting report on the results of testing for research and study;
- f) performing related tasks; and
- g) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 2269](#))

2269-01	X-Ray Technician, Grade U41
2269-02	Instructor (X-Ray Technician), Grade U41
2269-03	Instructor (Medical Laboratory Technologist), Grade U41
2269-05	Orientation Therapist for the Blind

## SUB-MAJOR 23 TEACHING PROFESSIONALS

**Teaching Professionals** teach the theory and practice of one or more disciplines at different educational levels, conduct research and improve or develop concepts, theories and operational methods pertaining to their particular disciplines, and prepare academic papers and books.

### MINOR GROUP 231 UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONALS

**University and Higher Education Teaching Professionals** prepare and deliver lectures and conduct tutorials in one or more subjects within a prescribed course of study at a university or other higher educational institution. They conduct research and prepare academic papers and books.

#### UNIT GROUP 2311 UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONALS

**University and Higher Education Teaching Professionals** prepare and deliver lectures and conduct tutorials in one or more subjects within a prescribed course of study at a university or other higher educational institution. They conduct research and prepare academic papers and books

#### Tasks include:

- a) delivering lectures and conducting tutorials, research and releasing publications;
- b) giving lectures, supervising thesis projects, managing practical work/tutorials and preparing lecture notes/laboratory manuals;
- c) conducting examination matters, monitoring the practical training of students, assisting in reviewing / preparing the curriculum / syllabus, engaging in research work and undertaking student development work;
- d) providing consultancy services to students and outsiders, supervising projects, theses and student papers, conducting research, publishing journals, articles, books and other forms of related publications, services, performing community and professional services, helping students develop their potential and character, and managing academic-related activities;
- e) designing and modifying the curricula and preparing courses of study in accordance with the requirements;
- f) encouraging discussion and independent thinking among students;
- g) conducting research and developing concepts, theories and operational methods for application in the industry and other fields;
- h) assisting in co-curricular activities;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2311](#))

2311-01	University Lecturer, Grade DS45
2311-02	Medical Lecturer, Grade DU45
2311-10	Lecturer
2311-11	Tutor



## MINOR GROUP 232 VOCATIONAL EDUCATION TEACHERS

**Vocational Education Teachers** teach or instruct vocational subjects at educational institutions, secondary schools and colleges. They prepare students for employment in specific occupations or occupational areas for which university or higher education is not normally required.

### UNIT GROUP 2321 VOCATIONAL EDUCATION TEACHERS

**Vocational Education Teachers** teach or instruct vocational subjects at educational institutions, secondary schools and colleges. They prepare students for employment in specific occupations or occupational areas for which university or higher education is not normally required.

#### Tasks include:

- a) planning and preparing lessons in accordance with the prescribed/ recommended curriculum;
- b) teaching and supervising students class work and discipline;
- c) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
- d) preparing reports on students' work and conferring with other teachers and parents;
- e) participating in staff meetings and educational conferences and workshops;
- f) organising or assisting in co-curricular activities;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: ([refer to index; unit group 2321](#))

2321-01	Teacher, Technical
2321-02	Teacher, Vocational

## MINOR GROUP 233 SECONDARY EDUCATION TEACHERS

**Secondary Education Teachers** teach one or more subjects in secondary school and organise educational activities.

### UNIT GROUP 2331 SECONDARY SCHOOL TEACHERS

**Secondary School Teachers** teach one or more subjects in secondary school and organise educational activities.

#### Tasks include:

- a) planning and preparing lessons in accordance with the prescribed/ recommended curriculum;
- b) teaching and supervising students' class work and discipline;
- c) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
- d) preparing reports on students' work and conferring with other teachers and parents;
- e) participating in staff meetings and educational conferences and workshops;
- f) organising or assisting in co-curricular activities;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: ([refer to index; unit group 2331](#))

2331-01	Graduate Education Service Officer, Grade DG41
2331-02	Secondary Education Teacher
2331-03	Graduate Teacher Officer
2331-04	Pre-University Teacher

## MINOR GROUP 234 PRIMARY SCHOOL AND EARLY CHILDHOOD TEACHERS

**Primary School and Early Childhood Teachers** teach various subjects at the primary education level and organise educational activities.

### UNIT GROUP 2341 PRIMARY SCHOOL TEACHERS

**Primary School Teachers** teach various subjects at the primary education level.

#### Tasks include:

- a) being responsible for the curriculum, co-curriculum, student affairs management, office management and administration;
- b) preparing teaching programmes such as reading, writing and arithmetic according to the prescribed or recommended curriculum;
- c) preparing, supervising and marking tests, projects and assignments to train pupils and to evaluate their progress, and giving additional guidance if necessary;
- d) organising and supervising pupils' co-curricular activities such as assisting in sports activities, school concert, visits and special programmes;
- e) encouraging the personal development of pupils and discussing their progress with parents;
- f) maintaining attendance records and school discipline;
- g) participating in staff meetings and educational conferences and workshops;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2341](#))

2341-01	Post-Diploma Education Service Officer, Grade DGA29
2341-02	Primary School Teacher

### UNIT GROUP 2342 EARLY CHILDHOOD EDUCATORS

**Early Childhood Educators** promote physical, mental and social development of pre-school children through educational activities and games.

#### Tasks include:

- a) planning and organising activities designed to facilitate development of children's physical and social skills;
- b) promoting language development through storytelling, role play, songs, rhymes, conversations and informal discussions;
- c) observing children in order to evaluate and discuss progress and potential problems with parents;
- d) supervising children's activities to ensure safety and resolving conflicts;
- e) attending staff meetings, educational conferences and workshops;
- f) performing related tasks; and
- g) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2342](#))

2342-01	Pre-Primary School Teacher
2342-02	Kindergarten Teacher
2342-03	Pre-School Teacher
2342-04	Early Childhood Educator

## MINOR GROUP 235 **MUSIC, ARTS AND PERFORMING ARTS TEACHERS**

**Music, Arts and Performing Arts Teachers** teach theory, practical and performance in music, arts and performing arts and organise educational activities.

### UNIT GROUP 2351 **MUSIC TEACHERS**

**Music Teachers** teach theory, practical and performance in music and organise educational activities.

#### Tasks include:

- a) preparing and delivering lessons to students on fundamental topics in music;
- b) organising performance groups and directing their rehearsals;
- c) planning and preparing lessons in accordance with the prescribed/ recommended curriculum;
- d) teaching and supervising students' class work and discipline;
- e) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
- f) preparing reports on students' work and conferring with other teachers and parents;
- g) participating in staff meetings and educational conferences and workshops;
- h) organising or assisting in co-curricular activities;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2351\)](#)

2351-01	Music Teacher
2351-02	Singing Teacher

### UNIT GROUP 2352 **ARTS TEACHERS**

**Arts Teachers** teach theory, practical and performance in arts, including fine and applied arts such as painting and sculpture design and crafts.

#### Tasks include:

- a) preparing and delivering lessons to students on fundamental topics in arts;
- b) explaining and demonstrating artistic techniques;
- c) planning and preparing lessons in accordance with the prescribed/recommended curriculum;
- d) teaching and supervising students' class work and discipline;
- e) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
- f) preparing reports on students' work and conferring with other teachers and parents;
- g) participating in staff meetings and educational conferences and workshops;
- h) organising or assisting in co-curricular activities;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2352\)](#)

2352-01	Fine Arts Teacher
2352-02	Sculpture Teacher
2352-03	Painting Teacher

#### UNIT GROUP 2353 PERFORMING ARTS TEACHERS

**Performing Arts Teachers** teach theory and practical in performing arts, dance, drama, visual and other performing arts.

**Tasks include:**

- a) preparing and delivering lessons to students on fundamental topics in performing arts;
- b) explaining and demonstrating artistic techniques;
- c) planning and preparing lessons in accordance with the prescribed/ recommended curriculum;
- d) teaching and supervising students' class work and discipline;
- e) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
- f) preparing reports on students' work and conferring with other teachers and parents;
- g) participating in staff meetings and educational conferences and workshops;
- h) organising or assisting in co-curricular activities;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2353](#))

2353-01	Modelling Teacher
2353-02	Dance Teacher
2353-03	Drama Teacher

#### MINOR GROUP 236 LANGUAGE TEACHERS

Language teachers plan, prepare and organise language programme activities.

#### UNIT GROUP 2361 LANGUAGE TEACHERS

**Language Teachers** plan, prepare and organise language programme activities.

**Tasks include:**

- a) coordinating all language programme activities including selecting participants, teaching, assessing course participants, as well as conducting studies and research for training requirements;
- b) planning, preparing and delivering lessons according to classes and age groups;
- c) marking and giving appropriate feedback on oral and written work;
- d) formulating and writing new materials;
- e) participating in social and cultural activities;
- f) carrying out freelance teaching on a one-to-one basis;
- g) conducting specialist courses for adults or business people who may require knowledge of scientific, technical or commercial terms;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2361](#))

2361-01	Language Teacher, Grade DG41
2361-02	Intensive Language Teacher
2361-03	Migrant Education Teacher
2361-04	Practical Language Teacher

## MINOR GROUP 237 RELIGIOUS TEACHERS

**Religious Teachers** teach a course in religion and theology.

### UNIT GROUP 2371 RELIGIOUS TEACHERS

**Religious Teachers** teach a course in religion and theology.

#### Tasks include:

- a) preparing and delivering lessons to students on topics of ethics, logic and contemporary religious thought;
- b) planning and preparing lessons in accordance with the prescribed/ recommended curriculum;
- c) teaching and supervising students' class work and discipline;
- d) preparing, assigning and marking exercises, assignments and tests to evaluate student progress;
- e) preparing reports on students' work and conferring with other teachers and parents;
- f) participating in staff meetings and educational conferences and workshops;
- g) organising or assisting in co-curricular activities;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2371](#))

2371-01	Islamic Religious Teacher
2371-02	<i>Ustaz/ Ustazah</i>
2371-03	Islamic Education Teacher
2371-04	Religious Education Teacher

## MINOR GROUP 238 TECHNOLOGY SKILL AND TECHNICAL TRAINERS

**Technology Skill and Technical Trainers** train school leavers and the existing industry workforce for employment purposes, leading to Levels 1-3 of the Malaysian Skill Certificate (SKM), Level 4 of the Malaysian Skill Diploma (DKM) and Levels 5 and above of the Advanced Malaysian Skill Diploma (DLKM). More than 70 per cent of the training is hands-on and part of the training is conducted at the workplace through apprenticeship or the National Dual Training System.

### UNIT GROUP 2381 VOCATIONAL TRAINING OFFICERS

**Vocational Training Officers** develop the National Occupational Skill Standards (NOSS), curriculum and training materials, teach or train students for employment purposes in one or more subjects such as petrochemistry; pharmacy; wood-based products; rubber and rubber-based products; oil palm-based industries; food processing; electrical and electronic equipment; medical devices; textiles and apparel; machinery and equipment; metals; transport equipment; business and professional services; integrated logistics services; ICT services; trade distribution; construction services; education and training; health services; tourism services.

#### Tasks include:

- a) carrying out research and development on vocational training in line with industry needs;
- b) preparing and using lesson plans as well as demonstrating to transfer skills to trainees;

- c) managing and providing training including teaching plans, explanatory papers, working papers, task lists and teaching aids as well as ensuring trainees acquire skills, and teaching practical and theory sessions;
- d) ensuring the products of the national skill training system can fulfil industry requirements;
- e) facilitating the knowledge sharing between industries and skill training centres which will contribute more to industrial R&D;
- f) giving instructions and hands-on and theoretical lessons in their fields or expertise and supervising trainees at the workshop and shop;
- g) identifying factors that cause imbalance in skilled human resource and competency;
- h) planning and doing effective promotion for the skill training programme to upgrade workers' aptitude level and productivity;
- i) introducing strategies, policies and programmes for development of human capital skills and competency through curriculum development; collaboration between industry and industrial training learning centres; better facilities for experts in the institution and the industry;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2381](#))

2381-01	Vocational Training Assistant/ Assistant Vocational Training Officer/ Vocational Training Officer, Grade J17
2381-02	Skill Training Trainer

#### **MINOR GROUP 239 OTHER TEACHING PROFESSIONALS**

**Other Teaching Professionals** conduct research and advise on teaching methods, teach those with learning difficulties or special needs; teach languages for migration and related purposes; give private tuition; teach information technology and other subjects outside the primary, secondary and higher education systems and provide other teaching services not classified elsewhere in Sub--Major 23, Teaching Professionals.

#### **UNIT GROUP 2391 EDUCATION METHOD SPECIALISTS**

**Education Method Specialists** conduct research and develop or advise on teaching methods, courses and teaching aids. They review and examine teachers' work, the functions of educational institutions and the results achieved and recommend changes and improvements.

##### **Tasks include:**

- a) researching into current developments in curricula, teaching methods and other educational practices, and advising on necessary changes and possible improvements;
- b) evaluating and advising on course contents and examination methods;
- c) researching into audio-visual and other teaching aids;
- d) documenting subjects and courses developed, and evaluating new courses;
- e) providing ongoing professional development, training and consultative services to teachers;
- f) organising and conducting workshops and conferences to train teachers in new programmes and methods;
- g) developing the structure, content and objectives of new courses and programmes;
- h) visiting schools periodically and conferring with administrative and teaching staff on matters relating to the curriculum, teaching methods, tools, etc;
- i) visiting classrooms to observe teaching techniques and to evaluate teachers' performance and academic results obtained;



- j) preparing reports and making recommendations to educational authorities concerning possible changes and improvements to the curriculum, teaching methods, etc;
- k) performing related tasks; and
- l) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2391\)](#)

2391-01	Curriculum Developer
2391-02	Education Method Specialist
2391-03	School Inspector
2391-04	Educational System Evaluator

#### UNIT GROUP 2392 SPECIAL NEEDS TEACHERS

**Special Needs Teachers** teach physically or mentally disabled children, youths or adults, or those with learning difficulties or other special needs. They promote the social, emotional, intellectual and physical development of their students.

##### Tasks include:

- a) designing or modifying the curricula and preparing lessons and activities adapted to students' abilities and needs;
- b) giving instructions to individuals or groups using special techniques or teaching aids suited to the students' needs;
- c) giving instructions using techniques or special teaching aids such as Braille or lip-reading appropriate to the students' disability and level and supervising work in class;
- d) encouraging students to have confidence, helping them to discover and adopt methods which compensate for limitations imposed by their disability, and promoting a sense of achievement;
- e) administering tests, evaluating and observing progress of each student and discussing it with parents, teachers, physiotherapists, social workers, etc.;
- f) discussing various learning programmes with parents;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2392\)](#)

2392-01	Teacher, Special Education for the Deaf
2392-02	Teacher, Special Education for the Dumb
2392-03	Teacher, Special Education for the Blind
2392-04	Teacher, Special Education for the Mentally Disabled

#### UNIT GROUP 2393 INFORMATION TECHNOLOGY TRAINERS

**Information Technology Trainers** develop, schedule and conduct training programmes and courses for computer and other information technology users.

##### Tasks include:

- a) preparing and developing instructional training material and aids such as handbooks, visual aids, online tutorials, demonstration models and supporting reference for training documentation;
- b) carrying out training needs analyses;

- c) designing course materials and other documents such as handouts, manuals and exercises;
- d) preparing the learning environment and resources, including setting up IT equipment;
- e) carrying out maintenance of hardware and software used for training purposes and recommending repairs and upgrades to management where appropriate;
- f) keeping abreast of developments in relevant systems, software and online training technology;
- g) dealing with administrative records;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2393](#))

2393-01	Satellite-Instruction Facilitator
2393-02	Computer Trainer
2393-03	Software Trainer

#### **UNIT GROUP 2399 TEACHING PROFESSIONALS NOT ELSEWHERE CLASSIFIED**

This unit group covers Teaching Professionals Not Elsewhere Classified in Minor Group 239: Other Teaching Professionals.

##### **Tasks include:**

- a) planning, managing and coordinating matters related to the marching activities of the band, and enforcing the discipline of trainees;
- b) assessing students' level of ability and determining their learning needs;
- c) planning, preparing and delivering study programmes, lessons and workshops for individual students and groups;
- d) assigning exercises and work relevant to students' level of ability, interests and aptitude;
- e) revising curricula, course content, course materials and methods of instruction;
- f) preparing students for examinations and assessments;
- g) counselling students to help them understand and overcome personal, social or behavioural problems affecting their education;
- h) teaching exceptionally intelligent and problematic students;
- i) assisting school children who have academic, behavioural or personality problems and working with children, parents and teachers the ways for overcoming difficulties;
- j) planning, organising and implementing special programmes to provide remedial or additional guidance;
- k) performing related tasks; and
- l) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2399](#))

2399-01	Training Officer, Grade E41
2399-02	Assistant Training Officer, Grade E27
2399-05	Educational Counsellor
2399-06	Vocational Student Counsellor

## SUB-MAJOR 24 **BUSINESS AND ADMINISTRATION PROFESSIONALS**

**Business and Administration Professionals** perform analytical, conceptual and practical tasks to provide services in financial, human resource development, public relations, marketing, sales, medical, information and communication technology matters and conduct reviews of organisational structures, methods and systems as well as quantitative analyses of information in investment activities.

### MINOR GROUP 241 **FINANCE PROFESSIONALS**

**Finance Professionals** plan and perform accounting services, advise on accountancy matters, plan and conduct financial audits of accounts of individuals, establishments and public or private institutions.

#### UNIT GROUP 2411 **ACCOUNTANTS**

**Accountants** plan, organise and administer accounting systems, and examine and analyse the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures.

#### **Tasks include:**

- a) managing the overall functions of accounting and finance, including performing analysis of financial reports and treasury functions;
- b) advising on, planning and implementing budgetary policies and systems, account control and other accounting policies and systems;
- c) preparing and certifying financial statements for presentation to the management, shareholders and statutory or other bodies;
- d) auditing and preparing a draft audit report, accounts of the government, statutory bodies, local authorities, Islamic Religious Council and other funds;
- e) preparing tax returns, advising on tax problems and supporting disputed claims before tax officials;
- f) preparing or reporting on profit forecasts and budgets;
- g) preparing project costing and risk analysis;
- h) identifying areas of cost reduction and recommending cost saving/control measures;
- i) conducting financial investigations, undertaking audits, preparing reports and advising on such matters as suspected fraud, insolvency, bankruptcy, mergers, capital financing and the purchase and sale of businesses;
- j) acting as liquidation agents in matters relating to bankruptcy and taxation;
- k) performing related tasks; and
- l) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2411](#))

2411-01	Accountant, Grade W41
2411-02	Executive Officer (Accounting), Grade 41
2411-09	Auditing Accountant
2411-10	Accountant

## UNIT GROUP 2412 FINANCIAL AND INVESTMENT ADVISERS

**Financial and Investment Advisers** develop financial plans for individuals and organisations and invest and manage funds on their behalf.

### Tasks include:

- a) analysing the financial profile of companies for the purpose of making investment recommendations;
- b) building and maintaining a client base;
- c) interviewing clients to determine financial status and objectives, modified risk and other information needed to plan financial and investment strategies;
- d) overseeing and coordinating treasury activities such as foreign exchange, money market and bond transactions;
- e) arranging to buy and sell stocks and bonds for clients;
- f) monitoring investment performance and reviewing investment plans based on modified needs and changes in markets;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** *(refer to index; unit group 2412)*

2412-01	Finance Officer, Grade W41
2412-02	Assistant Finance Officer, Grade W27
2412-05	Corporate Financial Adviser
2412-06	Financial and Investment Adviser

## UNIT GROUP 2413 FINANCIAL ANALYSTS

**Financial Analysts** conduct quantitative analyses of information affecting investments in public and private institutions.

### Tasks include:

- a) analysing company financial profile for investment planning;
- b) monitoring economic, industrial and corporate developments through analysis of available information;
- c) preparing investment action plans based on financial analyses;
- d) presenting oral and written reports on general economic trends, individual corporations, and entire industries;
- e) performing related tasks; and
- f) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** *(refer to index; unit group 2413)*

2413-01	Financial Analyst
2413-02	Bond Analyst
2413-03	Investment Consultant
2413-04	Operational Risk Analyst

## MINOR GROUP 242 ADMINISTRATION PROFESSIONALS

**Administration Professionals** apply various concepts and theories to improve the effectiveness of organisations and the individuals within the organisations.

### UNIT GROUP 2421 **MANAGEMENT AND ORGANISATION ANALYSTS**

**Management and Organisation Analysts** assist organisations to achieve greater efficiency and solve organisational problems. They study organisational structures, methods, systems and procedures.

#### Tasks include:

- a) conducting inspection, examining and analysing property data for preparation of assessment report;
- b) assisting and encouraging the development of objectives, strategies and plans aimed at achieving customer satisfaction and the efficient use of organisation resources;
- c) analysing and evaluating current systems and structures;
- d) discussing current systems with staff and observing systems at all levels of organisation;
- e) providing guidance to clients for a more efficient organisation and finding solutions to organisational problems;
- f) undertaking and reviewing studies by analysing existing and proposed methods and procedures such as administrative and clerical procedures;
- g) recording and analysing organisational work flow charts, records, reports, manuals and job descriptions;
- h) preparing and making proposals to revise methods and procedures, alter work flows, redefine job functions and resolve organisational problems;
- i) assisting in implementing approved recommendations, verifying revised regulations and procedure manuals, and drafting other documentation;
- j) reviewing operating procedures and advising on departure from procedures and standards;
- k) performing related tasks; and
- l) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2421](#))

2421-01	Evaluation Officer, Grade W41
2421-02	Assistant Valuation Officer, Grade W27
2421-03	Organisation and Method Analyst
2421-04	Research and Information Analyst

### UNIT GROUP 2422 **POLICY ADMINISTRATION PROFESSIONALS**

**Policy Administration Professionals** plan, devise and execute policies on management of human resource and the organisation, financial resources, the economy, administration and development of regions/districts/local areas/land, social planning and administration, international relations and foreign affairs (including foreign services), national security/defence and information technology management.

#### Tasks include:

- a) liaising and consulting with programme administrators and other interested parties to identify policy needs;
- b) reviewing existing policies and regulations to identify anomalies and inappropriate

- allocations;
- c) researching social, economic and industrial trends, and client expectations of programmes and services provided;
- d) formulating and analysing policy options, preparing briefing papers and recommendations for policy changes, and advising on preferred options;
- e) conducting threat and risk assessments and developing responses;
- f) reviewing operations and programmes to ensure consistency with organisational policies;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2422](#))

2422-01	Administrative and Diplomatic Officer, Grade M41
2422-02	Policy Analyst
2422-03	Intelligence Officer
2422-04	Policy Officer

#### UNIT GROUP 2423 PERSONNEL AND CAREER PROFESSIONALS

**Personnel and Career Professionals** provide professional business services related to personnel policies such as employee recruitment or development, occupational analyses and vocational guidance.

##### Tasks include:

- a) advising on and performing personnel functions relating to recruitment, placement, training, staff performance, promotion, compensation and employee-management relations;
- b) maintaining personnel records and associated human resource information systems;
- c) studying and analysing jobs performed in an establishment, conducting interviews with workers, supervisors and the management, and writing detailed post, job and occupation descriptions from data obtained;
- d) preparing occupational information booklets/pamphlets and occupational classification systems;
- e) advising on aspects of personnel administration, manpower research and planning, training or occupational information and vocational guidance;
- f) studying and advising individuals on employment opportunities, career choices and further education or training;
- g) providing guidance to students, parents and teachers in a wide range of matters, including students' personal problems, learning difficulties and special needs;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2423](#))

2423-01	Personnel Safety Officer
2423-02	Personnel Officer
2423-03	Human Resource Executive
2423-04	Job Analyst



## UNIT GROUP 2424 TRAINING AND STAFF DEVELOPMENT PROFESSIONALS

**Training and Staff Development Professionals** plan, develop, conduct and evaluate training and development programmes to ensure that the management and staff acquire skills and develop the competencies required by the organisation to meet organisational objectives.

### Tasks include:

- a) identifying training needs and requirements of individuals and organisations;
- b) setting human resource development objectives and evaluating learning outcomes;
- c) preparing and developing instructional training material and aids such as handbooks, visual aids, online tutorials, demonstration models and supporting training reference documentation;
- d) designing, coordinating, scheduling and conducting training and development programmes that can be delivered in the form of individual and group instruction, and facilitating workshops, meetings, demonstrations and conferences;
- e) liaising with external training providers to arrange delivery of specific training and development programmes;
- f) promoting internal and external training and development, and evaluating these promotional activities;
- g) monitoring and conducting ongoing evaluation and assessment of internal and external training quality and effectiveness, and reviewing and modifying training objectives, methods and course deliverables;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2424](#))

2424-01	Staff Training Officer
2424-02	Vocational Staff Training Officer
2424-03	Workforce Development Specialist

## UNIT GROUP 2425 ADMINISTRATIVE PROFESSIONALS

**Administrative Professionals** handle work related to financial management, supply and development procurement, management, services of personnel, office administration, official functions, consular matters and other administrative duties.

### Tasks include:

- a) planning, formulating and implementing public policies;
- b) preparing working papers, concept papers and reports on organisational performance;
- c) organising meetings / conferences;
- d) conducting research and maintaining organisational profile and database;
- e) coordinating travel arrangements for staff on work matters;
- f) preparing and assessing follow-up reports of staff and/or clients;
- g) coordinating all training courses and maintaining staff training records;
- h) maintaining scheduling record;
- i) handling stationery requisition, printing, binding and general logistics support;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2425](#))

2425-01	Administrative Officer, Grade N41
2425-02	Executive Officer (Administration), Grade 41
2425-18	Administration Executive Officer
2425-19	Operation Executive

#### UNIT GROUP 2426 RESEARCH AND DEVELOPMENT PROFESSIONALS

**Research and Development Professionals** plan, execute policies and responsible for basic research and science to the development of technology and new inventions.

**Tasks include:**

- a) conducting research to produce new discoveries;
- b) conducting research to improve the quality of existing inventions;
- c) conducting research to improve production;
- d) evaluating and determining the results of such research could be used for development purposes;
- e) enforcing relevant acts;
- f) carrying out studies and research on quality assurance, research and the transfer of science and technology and development, and training courses for users in the country;
- g) conducting basic and applied research, expert advice, and disseminate information on related technologies in the country;
- h) carrying out research development (R & D) in various fields; and
- i) enhancing knowledge and coordinating the work performance

**Examples of the occupations classified here:** (*refer to index; unit group 2426*)

2426-01	Research Officer, Grade Q41
2426-02	Scientific Officer, Grade C41
2426-06	Agro-Based Biotech Food Researcher
2426-07	Aquaculture Biotech Researcher

#### MINOR GROUP 243 SALES, MARKETING AND PUBLIC RELATIONS PROFESSIONALS

**Sales, Marketing and Public Relations Professionals** plan, develop, coordinate and carry out information dissemination programmes to promote the organisation, goods and services, and represent companies in selling a range of technical, industrial, medical, pharmaceutical and ICT goods and services to improve their structure, efficiency and/or profits.

#### UNIT GROUP 2431 ADVERTISING AND MARKETING PROFESSIONALS

**Advertising and Marketing Professionals** develop and coordinate advertising strategies and campaigns and develop market opportunities for new and existing goods and services.

**Tasks include:**

- a) planning, implementing and monitoring various business activities;
- b) reporting on customer feedback and requirements to manufacturers;
- c) developing and devising creative ideas for an advertising campaign for a brand or business;
- d) advising clients on how, when and where to spend their advertising budgets;
- e) providing direct, creative and strategic communication with the target audience, e.g. direct mail and direct response radio advertising;
- f) interacting with the media;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** (*refer to index; unit group 2431*)

2431-01	Advertising Account Executive
2431-02	Market Research Business Analyst
2431-03	Sales Promotion Officer
2431-04	Business Efficiency Officer

## UNIT GROUP 2432 PUBLIC RELATIONS PROFESSIONALS

**Public Relations Professionals** improve, advise or apply operational methods to build, maintain and manage communications between an organisation and the public.

### Tasks include:

- a) managing press conferences, draft press releases, briefing notes and information publications, exhibitions and annual reports;
- b) writing and editing press releases, in-house newsletters, speeches, articles and annual reports;
- c) maintaining and updating information on the organisation's website;
- d) preparing and supervising the production of publicity brochures, handouts, promotional videos, photographs, films and multimedia programmes;
- e) responding to queries from individuals, journalists and other organisations;
- f) giving briefings at presentations, press conferences, radio and TV interviews, and meetings;
- g) developing and maintaining good working relations with the media, including local and national newspapers, magazines, radio and television;
- h) organising special events such as press conferences, exhibitions, open days, tours, competitions and sponsorship;
- i) fostering community relations through events such as open days and involvement in community initiatives;
- j) focusing on improving the well-being of individuals, families and the community.
- k) planning, research and evaluation;
- l) performing related tasks; and
- m) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** (refer to index; unit group 2432)

2432-01	Information Officer, Grade S41
2432-02	Assistant Information Officer, Grade S27
2432-03	Public Relations Officer
2432-04	Corporate Affairs Executive

## UNIT GROUP 2433 TECHNICAL AND MEDICAL SALES PROFESSIONALS (EXCLUDING ICT)

**Technical and Medical Sales Professionals (Excluding ICT)** improve, advise or apply operational methods specialised in the sale of medical and healthcare products including installations, equipment and technical products and related services, and provide specialised information as required.

### Tasks include:

- a) assessing clients' needs and recommending appropriate goods or services;
- b) attending company meetings, technical data presentations and briefings;
- c) being sensitive to the development of the National Health Service (NHS), anticipating potential negative and positive impacts on the business and adopting appropriate strategies;
- d) keeping abreast of the health service activities in a particular area;
- e) providing information on the design for products or services which shall be in accordance with customer requirements;
- f) preparing reports and working papers to carry out a demonstration of the benefits of a product or service;
- g) arranging delivery of goods, installation of equipment and provision of services;
- h) planning, research and evaluation;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** *(refer to index; unit group 2433)*

2433-01	Sales Representative, Medical
2433-02	Sales Representative, Medical Devices
2433-03	Sales Representative, Medical Hardware
2433-04	Sales Representative, Active Implantable Devices

#### **UNIT GROUP 2434 INFORMATION AND COMMUNICATIONS TECHNOLOGY (ICT) SALES PROFESSIONALS**

**Information and Communications Technology (ICT) Sales Professionals** sell a range of computer hardware, software and other information and communications technology goods and services including installation and provide specialised information as required.

**Tasks include:**

- a) soliciting orders and selling goods to retail, industrial, wholesale and other establishments;
- b) selling technical equipment, supplies and services to business establishments or individuals;
- c) discussing the needs of new and existing customers and providing specialised information about how specific equipment, supplies and services meet those needs;
- d) quoting and negotiating prices and credit terms, completing contracts and recording orders;
- e) updating customer records and preparing sales reports;
- f) arranging delivery of goods, installation of equipment and provision of services; and
- g) reporting customers' reactions and requirements to manufacturers.

**Examples of the occupations classified here:** *(refer to index; unit group 2434)*

2434-01	Sales Representative, Information and Communications Technology
2434-02	Sales Representative, Computer
2434-03	Product Support Engineer
2434-04	Information Technology Sales Engineer

## SUB-MAJOR 25 INFORMATION AND COMMUNICATIONS TECHNOLOGY PROFESSIONALS

**Information and Communications Technology Professionals** conduct research, plan, design, write, test, advise and improve information technology systems, hardware, software and related concepts for specific applications; develop associated documentation including principles, policies and procedures; and design, develop, control, maintain and support databases and other information systems to ensure optimal performance and data integrity and security.

### MINOR GROUP 251 SOFTWARE AND APPLICATION DEVELOPERS AND ANALYSTS

**Software and Application Developers and Analysts** conduct research, plan, design, write, test, advise on and improve information technology systems such as hardware, software and other applications to meet specific requirements.

#### UNIT GROUP 2511 SYSTEMS ANALYSTS

**Systems Analysts** gather and analyse facts on operations, procedures and systems for transfer into a program appropriate for data processing equipment, and recommend computer use to increase productivity efficiency and organisational profit.

**Tasks include:**

- a) preparing program specifications for computer programmers;
- b) conducting research, analysing and evaluating information technology requirements, procedures or customer problems;
- c) developing, implementing recommendations and plans for improving current or future information systems;
- d) identifying and evaluating inefficiencies and analysing processes, procedures and work practices to optimise organisational performance;
- e) creating, taking on and implementing system testing projects;
- f) developing functional specifications for use by system developers;
- g) expanding or modifying systems to improve work flow or new services;
- h) coordinating and linking the computer systems within an organisation to increase optimise organisational operation;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2511](#))

2511-01	Computer Communications Analyst
2511-02	Electronic Data Processing Analyst
2511-03	Management Information Systems (MIS) Analyst
2511-04	Computer Systems Analyst

#### UNIT GROUP 2512 SOFTWARE DEVELOPERS

**Software Developers** study, analyse and evaluate requirements for existing or new software applications and operating systems, and design, develop, test and maintain software solutions to meet the requirements.

**Tasks include:**

- a) studying, analysing and evaluating requirements for software applications and operating systems;
- b) studying, designing and developing computer software systems;
- c) consulting with engineering staff to evaluate interfaces between hardware and software;

- d) developing and directing software testing and procedure validation;
- e) modifying existing software to correct errors, to adapt it to new hardware or to upgrade interfaces and improve performance;
- f) directing software programming and development of documentation;
- g) assessing, developing, upgrading and documenting maintenance procedures for operating systems, communication environments and application software;
- h) consulting with customers concerning maintenance of software system; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2512](#))

2512-01	Software Developer
2512-02	Multimedia Software Developer
2512-03	Software Designer
2512-04	Design Engineer

#### UNIT GROUP 2513 WEB AND MULTIMEDIA DEVELOPERS

**Web and Multimedia Developers** combine design and technical knowledge to study, analyse, evaluate, design, programme and modify websites and applications that display text, graphics, animation, imaging, audio and video, and other interactive media.

##### Tasks include:

- a) analysing, designing and developing Internet sites applying a mixture of artistry and creativity with software programming and scripting languages and interfacing with operating environments;
- b) designing and developing digital animation, imaging, presentations, games, audio and video clips, and Internet applications using multimedia software, tools and utilities, interactive graphics and programming languages;
- c) communicating with network specialists regarding web-related issues such as security and hosting websites to control and enforce Internet and web server security, space allocation, user access, business continuity, website backup and disaster recovery planning;
- d) designing, developing and integrating computer code with other specialised inputs such as image files, audio files and scripting languages to produce, maintain and support websites;
- e) assisting in analysing, specifying and developing Internet strategies, web-based methodologies and development plans;
- f) performing related tasks; and
- g) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2513](#))

2513-01	Website Developer
2513-02	Internet/ Intranet Developer
2513-03	Website Architect
2513-04	Webmaster



## UNIT GROUP 2514 APPLICATION PROGRAMMERS

**Application Programmers** write and maintain programmable code outlined in technical instructions and specifications for software applications and operating systems.

### Tasks include:

- a) writing and maintaining the program code outlined in instructions and specifications in accordance with quality accredited standards;
- b) revising, repairing or expanding existing programs to increase operating efficiency or adapt to new requirements;
- c) conducting trial runs of programs and software applications to confirm that they will produce the desired information;
- d) compiling and writing documentation of program development;
- e) identifying and communicating technical problems, processes and solutions;
- f) performing related tasks; and
- g) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2514](#))

2514-01	Computer Programmer
2514-02	Software Programmer
2514-03	Technical Programmer
2514-04	Information Technology Programmer

## UNIT GROUP 2519 SOFTWARE AND APPLICATION DEVELOPERS AND ANALYSTS NOT ELSEWHERE CLASSIFIED

This unit group covers Software and Application Developers and Analysts Not Elsewhere Classified in minor group 251: Software and Application Developers and Analysts.

### Tasks include:

- a) developing and documenting software testing plans;
- b) installing software and hardware and configuring operating system software in preparation for testing;
- c) verifying that programme functions are according to user requirements and established guidelines;
- d) executing, analysing and documenting results of software application tests and information and telecommunication system tests;
- e) developing and implementing software and basic information system testing, procedures and scripts;
- f) performing related tasks; and
- g) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2519](#))

2519-01	Software Tester
2519-02	Systems Tester
2519-03	Product Quality Assurance Engineer (IT)
2519-04	QA Analyst (IT)

## MINOR GROUP 252 DATABASE AND NETWORK PROFESSIONALS

**Database and Network Professionals** design, develop, maintain and support optimal performance and control security and infrastructure, including database, hardware and software, network and operating systems.

### UNIT GROUP 2521 **DATABASE DESIGNERS AND ADMINISTRATORS**

**Database Designers and Administrators** design, develop, control, maintain and support the optimal performance and security of databases.

**Tasks include:**

- a) designing and developing database architecture and structures for information system projects;
- b) designing, constructing, modifying, integrating, implementing and testing database management systems;
- c) conducting research and advising on the selection, application and implementation of database management tools;
- d) developing and implementing data administration policy, documentation, standards and models;
- e) developing policies and procedures for database backup and data recovery;
- f) conducting preventive operations and maintenance of backups and recovery, and enforcing security and integrity controls;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2521](#))

2521-01	Database Architect
2521-02	Database Analyst
2521-03	Database Administrator
2521-04	Database Designer

### UNIT GROUP 2522 **INFORMATION TECHNOLOGY SYSTEM ADMINISTRATORS**

**Information Technology System Administrators** develop, maintain and support optimal performance and control security of information technology systems.

**Tasks include:**

- a) maintaining and administering computer networks and related computing environments including computer hardware, system software, application software and all configurations;
- b) recommending changes to improve systems and network configurations, and determining hardware or software requirements related to such changes;
- c) diagnosing hardware and software problems; performing data backup and disaster recovery operation;
- d) operating master consoles to monitor the performance of computer systems and networks, and coordinating computer network access and use;
- e) performing related tasks; and
- f) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2522](#))

2522-01	Information Technology Officer, Grade F41
2522-02	Executive Officer (Information Technology), Grade 41
2522-09	Information System Officer
2522-10	Network Communications Executive

## UNIT GROUP 2523 COMPUTER NETWORK PROFESSIONALS

**Computer Network Professionals** research, analyse and recommend strategies for network architecture and development. They implement, manage, maintain and configure network hardware and software, and monitor, troubleshoot and optimise performance.

### Tasks include:

- a) analysing, developing, interpreting and evaluating complex system designs and architectural specifications, data models and diagrams in computer system development configuration and integration;
- b) investigating, analysing, evaluating and monitoring the network infrastructure to ensure networks are configured to operate at optimum performance;
- c) assessing and recommending improvements to network operations and integrated hardware, software, communications and operating systems;
- d) providing specialist skills in supporting and troubleshooting network problems and emergencies;
- e) installing, configuring, testing, maintaining and administering new and upgraded networks, software database applications, servers and workstations;
- f) providing network programming to support business and special requirements;
- g) providing and maintaining procedures and documentation for network inventory, and recording diagnoses and resolutions of network faults, enhancements and modifications to the network, and maintenance instructions;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 2523](#))

2523-01	Network Analyst
2523-02	Network Service Consultant
2523-03	Network Administrator
2523-04	Network Infrastructure Administrator

## UNIT GROUP 2529 DATABASE AND NETWORK PROFESSIONALS NOT ELSEWHERE CLASSIFIED

This unit group covers Database and Network Professionals Not Elsewhere Classified in Minor Group 252: Database and Network Professionals.

### Tasks include:

- a) developing plans to safeguard computer files against modification, destruction or disclosure to meet emergency data processing needs;
- b) training users and promoting security awareness to ensure system security and to improve server and network efficiency;
- c) conferring with users on issues such as computer data access needs, security violations and programming changes;
- d) monitoring use of data files and regulating access to safeguard information in computer files;
- e) performing risk assessments and executing tests on the data processing system to ensure functioning of data processing activities and security measures;
- f) performing related tasks; and
- g) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 2529](#))

2529-01	Information and Communications Technology Security Executive
2529-02	Cyber Security Executive
2529-03	Digital Forensic Specialist
2529-04	Security Specialist (IT)

## SUB-MAJOR 26 LEGAL PROFESSIONALS

**Legal Professionals** conduct research, improve or develop concepts, theories and operational methods, or apply knowledge in activities relating to the law and regulations.

### MINOR GROUP 261 LEGAL PROFESSIONALS

**Legal Professionals** conduct research, improve or develop concepts, theories and methods of operation, or apply their knowledge in activities relating to the law and regulations, and plead cases or conduct prosecutions in courts, or preside over judicial proceedings and pronounce judgement in courts.

#### UNIT GROUP 2611 LAWYERS

**Lawyers** give clients legal advice on a wide variety of subjects and plead cases or conduct prosecutions in courts, or instruct barristers or advocates to plead in higher courts of justice.

##### Tasks include:

- a) supervising and administering the Legal Aid Bureau branches, drafting statements of claim, statements of defence, petitions, affidavits, giving legal advice to eligible clients, representing clients in trials in the Court of Appeal, High Court, Magistrates' Court and the Sharia Court;
- b) managing the Sharia Court in the district, acting as the Sharia Subordinate Court Judge, preparing the grounds of judgment of appeal cases, legal reports for publication in the Sharia Law Journal and certifying the application certificate in estate distribution under the designated jurisdiction;
- c) drafting legislation and preparing government regulations based on existing laws;
- d) providing legal advice to clients (including the government) on a wide variety of subjects and undertaking legal business on clients' behalf;
- e) assisting clients to negotiate settlements in matters which involve legal disputes;
- f) examining the circumstances of disputes or reported crimes to ascertain facts and their legal implications;
- g) preparing pleadings or cases for the plaintiff or defendant and conducting them in court;
- h) representing clients in the lower court or instructing barristers or advocates to plead in higher courts of justice;
- i) receiving briefs and pleading in a higher court;
- j) acting as prosecutor on behalf of the government in criminal cases;
- k) drawing up legal documents, wills, affidavits, contracts and administering oaths;
- l) performing related tasks; and
- m) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2611](#))

2611-01	Legal Officer, Grade L41
2611-02	Prosecutor, Grade L41
2611-19	Prosecutor
2611-20	Lawyer

## UNIT GROUP 2612 JUDGES

**Judges** preside over criminal and civil proceedings in courts of law.

### Tasks include:

- a) hearing and weighing arguments and evidence;
- b) interpreting and enforcing regulatory procedure and making rulings on the admissibility of evidence;
- c) directing the jury on the legal details applicable to the case;
- d) researching a legal issue and preparing a report on the issue;
- e) determining the rights and obligations of the parties involved;
- f) pronouncing judgment;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2612\)](#)

2612-01	Judge
2612-02	Magistrate
2612-03	Judge, Native Court
2612-04	Judge, Federal Court

## UNIT GROUP 2619 LEGAL PROFESSIONALS NOT ELSEWHERE CLASSIFIED

This unit group covers Legal Professionals Not Classified Elsewhere in Minor Group 261: Legal Professionals.

### Tasks include:

- a) drawing up legal documents and affirming and administering oaths and statutory declarations;
- b) implementing legal policy and regulations;
- c) performing administration work in courts of law;
- d) administering the estates of deceased persons or other trusts;
- e) taking charge and administering estates of insolvents (bankrupts) or properties and assets of companies;
- f) determining, by inquest, the causes of any death not obviously due to natural causes;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2619\)](#)

2619-01	Notary
2619-02	Commissioner for Oaths
2619-03	Registrar of Court
2619-04	Trust Officer

## SUB-MAJOR 27 HOSPITALITY AND RELATED SERVICES PROFESSIONALS

**Hospitality and Related Services Professionals** conduct research, improve or develop concepts, theories and operational methods, or apply technical knowledge of hotel and restaurant operations or other similar organizations.

### MINOR GROUP 271 HOTEL AND RESTAURANT PROFESSIONALS

**Hotel and Restaurant Professionals** conduct research, plan, develop, and improve operations management organization providing accommodation, food, drinks and other hospitality services.

#### UNIT GROUP 2711 HOTEL PROFESSIONALS

**Hotel Professionals** conduct research, plan, develop, and improve operational management of hotels, motels and similar establishments providing accommodation and other services, including front office (reception, concierge and reservations), food and beverage operations and housekeeping.

##### Tasks include:

- a) planning and improving operational management of hotels, restaurants and establishments;
- b) organizing accommodation, catering and other hotel services;
- c) promoting and marketing the business;
- d) implementing the budget plan, finance and control expenses;
- e) setting and achieving sales and profit targets;
- f) recruiting, training and monitoring staff;
- g) planning work schedules for individuals and teams;
- h) meeting and greeting customers;
- i) handling customer complaints and comments;
- j) addressing and resolving problems;
- k) ensuring events and conferences run smoothly;
- l) supervising maintenance, supplies, renovations and furnishings;
- m) dealing with contractors and suppliers;
- n) ensuring security is effective;
- o) carrying out inspections of property and services;
- p) ensuring compliance with licensing laws, health and safety and other statutory regulations;
- q) performing related tasks; and
- r) enhancing knowledge and coordinating the work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2711](#))

2711-01	Guest Service Officer
2711-02	Hotel Operations Executive
2711-03	Food and Beverage Guest Services Executive
2711-04	Executive Concierge Hotel



## UNIT GROUP 2712 RESTAURANT PROFESSIONALS

**Restaurant Professionals** conduct research, plan, develop and improve the operational management of cafes, restaurants and similar establishments providing food and catering services.

### Tasks include:

- a) planning and improving the management of restaurant operations;
- b) analyzing the level of sales and profit restaurant;
- c) planning and coordinating menus;
- d) coordinating the entire operation of the restaurant during scheduled shifts;
- e) ensuring all employees adhere to the company's uniform standards;
- f) meeting and greeting customers and organizing table reservations;
- g) advising customers on menu and beverage choices;
- h) organizing and supervising the shifts of kitchen, waiting and cleaning staff;
- i) maintaining high standards of quality control, hygiene and health and safety;
- j) inspecting stockpiles and ordering supplies;
- k) providing petty cash as required;
- l) implementing policies;
- m) preparing the budget estimates;
- n) planning and controlling the use of resources and recruitment;
- o) performing related tasks, and
- p) enhancing knowledge and coordinating the work performance.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 2712](#))

2712-01	Food Preparation Officer Grade C41
2712-02	Food Preparation Executive
2712-03	Kitchen Administrator
2712-04	Food and Beverage Personnel

## SUB-MAJOR 28 SOCIAL AND CULTURAL PROFESSIONALS

**Social and Cultural Professionals** conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to fields such as librarianship, society and religion, journalism and creative arts.

### MINOR GROUP 281 LIBRARIANS, ARCHIVISTS AND CURATORS

**Librarians, Archivists and Curators** develop and maintain the collections of libraries, archives, museums, art galleries and similar establishments.

#### UNIT GROUP 2811 ARCHIVISTS AND CURATORS

**Archivists and Curators** collect, appraise and ensure the safekeeping and preservation of the collections of libraries, archives, museums, art galleries and similar establishments. They plan, devise and implement systems for the safekeeping of records and historically valuable documents.

#### Tasks include:

- a) identifying the institutions / individuals in any country as may be necessary to obtain all kinds of archival material relating to Malaysia and managing procurement processing, classification, translation, publishing and reference description preparation of such materials;
- b) carrying out management and administrative tasks, planning, coordinating and implementing activities such as museum exhibits, preservation and conservation of ancient objects, research on archaeology, flora and fauna, national culture, offering museology advice and preparing reports on research findings;
- c) researching into, appraising, developing, managing and preserving historically significant and valuable documents;
- d) directing or carrying out the preparation of indexes, bibliographies, microfilm copies and other reference aids of the collection of materials and making them available to users;
- e) researching into the origin, distribution and use of materials and objects of cultural and historical interest;
- f) managing, developing and maintaining collections of items of artistic, cultural, scientific or historical significance in museums or art galleries;
- g) cataloguing museum and art gallery collections and organising exhibitions;
- h) maintaining records;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2811](#))

2811-01	Archive Officer, Grade S41
2811-02	Curator, Grade S41
2811-05	Archivist
2811-06	Curator

## UNIT GROUP 2812 LIBRARIANS AND RELATED INFORMATION PROFESSIONALS

**Librarians and Related Information Professionals** collect, select, organise and maintain library collections and other information repositories, organise and control other library services and provide information for users.

### Tasks include:

- a) carrying out administrative tasks and financial management, human resource management and supervision, maintaining and ensuring the security of information sources and ICT applications in libraries;
- b) classifying or supervising classification, indexing, cataloguing, circulation of library materials and maintaining records;
- c) selecting and recommending acquisitions of books and other printed materials or audio-visual recordings;
- d) assisting inquirers and retrieving information from manual files or computerised databases;
- e) supervising the maintenance of books and other materials;
- f) managing interlibrary loan systems and information networks;
- g) maintaining liaison with other libraries and library associations;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2812](#))

2812-01	Librarian, Grade S41
2812-02	Executive Officer (Library), Grade 41
2812-09	Librarian
2812-10	Bibliographer

## MINOR GROUP 282 SOCIAL AND RELIGIOUS PROFESSIONALS

**Social and Religious Professionals** conduct research, improve or develop concepts, theories and operational methods, or apply knowledge relating to philosophy, politics, economics, sociology, anthropology, history, philology, languages, psychology, religious faiths and other social sciences, or they provide social services to meet the needs of individuals and families in a community.

## UNIT GROUP 2821 ECONOMISTS

**Economists** conduct research, monitor data, analyse information and prepare reports, and resolve economic and business problems. They develop models for analysis and understanding and make predictions of future economic circumstances and trends.

### Tasks include:

- a) compiling, analysing and interpreting economic and statistical data;
- b) preparing reports on research findings;
- c) advising on economic policy and course of action to be followed in the light of analyses of past, present and projected economic factors;
- d) performing related tasks; and
- e) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2821](#))

2821-01	Economic Affairs Officer, Grade E41
2821-02	Assistant Economic Affairs Officer, Grade E27
2821-05	Econometrician
2821-06	Economist

## UNIT GROUP 2822 SOCIOLOGISTS, ANTHROPOLOGISTS AND RELATED PROFESSIONALS

**Sociologists, Anthropologists and Related Professionals** investigate and describe the social structure of societies, the origin and evolution of humanity, and the interdependence between environmental conditions and human activities. They provide advice on their findings in the formulation of economic and social policies.

### Tasks include:

- a) planning research programmes including designing studies, collection and analysis of information and its assessment, on the national development policies and programmes;
- b) conducting research on the origin, development, structure, social patterns, organisations and inter-relationships of human society;
- c) tracing the origin and evolution of humanity through the study of changing characteristics and cultural and social institutions;
- d) tracing the development of humanity through relics such as dwellings, temples, tools, pottery, coins, weapons or sculptures;
- e) performing related tasks; and
- f) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2822](#))

2822-01	Social Research Officer, Grade N41
2822-02	Assistant Social Research Officer, Grade N27
2822-03	Sociologist
2822-04	Anthropologist

## UNIT GROUP 2823 PHILOSOPHERS, HISTORIANS AND POLITICAL SCIENTISTS

**Philosophers, Historians and Political Scientists** conduct research and describe past events and activities including the development of social and economic structures and institutions, and political movements.

### Tasks include:

- a) researching, specifically through reasoning, into the general causes, principles and meaning of the world, human actions, experience and existence, and interpreting and developing philosophical concepts and theories;
- b) consulting and comparing primary sources such as original contemporary records of past events and secondary sources such as archaeological or anthropological findings;
- c) extracting relevant material, checking its authenticity and researching into and describing the history of a particular period, country or region, or a particular facet (for example economic, social or political) of its history;
- d) conducting research in such fields as political philosophy, or theory and practice of systems, institutions or past and current political situations;
- e) observing contemporary political institutions and collecting data on them from various sources including interviews with government and political party officials and other relevant persons;
- f) presenting findings and conclusions in publications for use by government, political parties or other organisations and interested persons;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: [\(refer to index; unit group 2823\)](#)

2823-01	Philosopher
2823-02	Political Philosopher
2823-03	Historian
2823-04	Political Scientist

#### UNIT GROUP 2824 PSYCHOLOGISTS

**Psychologists** research into and study human mental processes and behaviour and apply this knowledge to promote personal, social, educational or occupational adjustment and development.

**Tasks include:**

- planning, implementing and coordinating activities related to psychology / clinical psychology / counselling for the client;
- advising on, planning and carrying out tests to measure mental, physical and other characteristics such as intelligence, abilities, attitudes and potential, and interpreting and evaluating results;
- analysing heredity, social, occupational effects and those caused by other factors on individual thought and behaviour;
- holding counselling sessions or therapeutic treatment and providing follow-up services;
- maintaining communication with family members, educational authorities or employers and recommending possible solutions to and treatment of problems;
- studying psychological factors in the diagnosis, treatment and prevention of mental illnesses and emotional or personality disorders, and conferring with related professionals;
- performing related tasks; and
- enhancing knowledge and coordinating work performance.

Examples of the occupations classified here: [\(refer to index; unit group 2824\)](#)

2824-01	Psychology Officer, Grade S41
2824-02	Executive Officer (Psychology), Grade 41
2824-05	Psychologist
2824-06	Clinical Psychologist

#### UNIT GROUP 2825 SOCIAL WORK AND COUNSELLING PROFESSIONALS

**Social Work and Counselling Professionals** provide advice and guidance to individuals, families, groups, communities and organisations in response to social and personal difficulties. They assist clients to develop skills, access the resources and support services needed to respond to issues arising from unemployment, poverty, disability, addiction, criminal and delinquent behaviour, marital and other problems.

**Tasks include:**

- planning, implementing and coordinating activities related to psychology / clinical psychology / counselling for the client;
- helping individuals and families with personal and social problems;
- collecting information relevant to clients' needs and advising them on their rights and obligations;
- analysing the clients' situation and presenting alternative approaches to resolving problems;

- e) preparing and compiling case records or reports for court and other legal proceedings;
- f) providing guidance to at-risk youth and rehabilitating troubled youth by organising and supervising social, educational and recreational activities in youth clubs, community centres and similar organisations;
- g) helping physically or mentally handicapped persons to obtain adequate treatment and improve their ability to function in society;
- h) planning, organising or providing home-help services;
- i) monitoring the progress of clients;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2825\)](#)

2825-01	Community Development Officer, Grade S41
2825-02	Assistant Community Development Officer, Grade S27
2825-03	Social Worker, Professional
2825-04	Counsellor

#### **UNIT GROUP 2826 RELIGIOUS PROFESSIONALS**

**Religious Professionals** function as perpetuators of sacred traditions, practices and beliefs. They lead religious ceremonies, provide spiritual and moral guidance and perform other functions associated with the practice of a religion.

##### **Tasks include:**

- a) being responsible to the *Mufti* in carrying out research and preparation to enable the *Mufti* to issue a fatwa on the effectiveness of a planned programme;
- b) perpetuating sacred traditions, practices and beliefs;
- c) leading religious rites and ceremonies;
- d) undertaking various administrative and social duties including being in committees and attending meetings of religious organisations;
- e) providing spiritual and moral guidance in accordance with the religion professed;
- f) propagating religious doctrines;
- g) preparing and delivering religious sermons and preaching;
- h) conducting religious classes and leading prayers and supervising discussions, groups, retreats and seminars;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2826\)](#)

2826-01	Islamic Affairs Officer, Grade S41
2826-02	Assistant Islamic Affairs Officer, Grade S27
2826-03	Religious Officer
2826-04	<i>Mufti</i>



## MINOR GROUP 283 AUTHORS, JOURNALISTS AND LINGUISTS

**Authors, Journalists and Linguists** conceive and create literary works, interpret and communicate news and public affairs through the media and translate or interpret from one language into another.

### UNIT GROUP 2831 **AUTHORS AND RELATED WRITERS**

**Authors and Related Writers** plan, research and write books, scripts, original stories, plays, essays, speeches, manuals, specifications and other non-journalistic articles (excluding material for newspapers, magazines and other periodicals) for publication or presentation.

#### Tasks include:

- a) writing literary works for publication or dramatic performance;
- b) writing scripts and continuities and preparing programmes for stage, film, radio and television productions;
- c) appraising and writing about literary, musical and other works of art and artistic performances;
- d) interviewing politicians and other public figures at press conferences and on other occasions, including individual interviews recorded for radio or television;
- e) writing editorials and selecting, revising, arranging and editing submitted articles for publication and broadcasting;
- f) appraising manuscripts submitted for publication in book form, making recommendations thereon and editing or supervising the editing of the material;
- g) writing advertising copy promoting a particular product or service;
- h) selecting, assembling and preparing publicity materials about business or other organisations for issue through the press, radio, television and other media;
- i) designing and writing brochures, handbooks and similar technical publications;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2831](#))

2831-01	Author
2831-02	Biographer
2831-03	Novelist
2831-04	Playwright

### UNIT GROUP 2832 **JOURNALISTS**

**Journalists** research, investigate, interpret and communicate news and public affairs through newspapers, television, radio and other media.

#### Tasks include:

- a) issuing news reports every day from procured sources for the customer to be made available to the community;
- b) collecting local, national and international news through interviews, investigation and observation, attending public events, seeking out records, reviewing written work, attending film screenings and stage performances;
- c) collecting, reporting and commenting on news and current affairs for publication in newspapers and periodicals or for broadcast by radio or television;
- d) interviewing politicians and other public figures at press conferences and on other occasions, including individual interviews recorded for radio or television;

- e) writing editorials and selecting, revising, arranging and editing submitted articles for publication and broadcasting;
- f) appraising manuscripts submitted for publication in book form, making recommendations thereon and editing or supervising the editing of the material;
- g) writing advertising copy promoting a particular product or service;
- h) selecting, assembling and preparing publicity materials about business or other organisations for issue through the press, radio, television and other media;
- i) writing critical reviews of literary, musical and other artistic works based on knowledge, judgement and experience for newspapers, television, radio and other media;
- j) performing related tasks; and
- k) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2832\)](#)

2832-01	Journalist, S41
2832-02	Publications Officer, Grade N41
2832-05	News Reporter
2832-06	Columnist

#### **UNIT GROUP 2833 TRANSLATORS, INTERPRETERS AND OTHER LINGUISTS**

**Translators, Interpreters and Other Linguists** translate or interpret from one language into another and study the origin, development and structure of languages.

**Tasks include:**

- a) studying the relationships between ancient parent languages and modern language groups, tracing the origin and evolution of words, grammar and language forms and presenting findings;
- b) advising on or preparing language classification systems, grammars, dictionaries and similar matters;
- c) translating from one language into another and ensuring that the correct meaning of the original is retained, that legal, technical or scientific texts are correctly rendered and that the phraseology, terminology, spirit and style are conveyed as far as possible;
- d) interpreting from one language into another, in particular at conferences, meetings and similar occasions, and ensuring that the correct meaning and, as far as possible, the spirit of the original are transmitted;
- e) providing simultaneous interpreting at meetings of the Senate and House of Representatives, and editing the questions of the Senate;
- f) specialising in at least two or more languages;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2833\)](#)

2833-01	Interpreter, Grade L17
2833-02	Simultaneous Interpreter, Grade N41
2833-03	Translator
2833-04	Interpreter

## MINOR GROUP 284 CREATIVE AND PERFORMING ARTISTS

**Creative and Performing Artists** conduct research, improve or develop concepts, theories and operational methods, or apply knowledge relating to the arts and performance.

### UNIT GROUP 2841 **VISUAL ARTISTS**

**Visual Artists** create and execute artistic works by sculpting, painting, drawing, cartooning, engraving or using related techniques.

**Tasks include:**

- a) planning, developing and providing services in the form of teaching, talks, seminars, courses, meetings, demonstrations and other activities;
- b) preserving and developing ideas, designs and styles in literary works, writings and sculptures;
- c) creating artistic designs or abstract three-dimensional or relief forms by shaping and combining materials such as wood, wax, stone, clay or metal;
- d) creating representational or abstract drawings and paintings using pencil, ink, oil paints, watercolours or through the application of other techniques;
- e) creating drawings and engraving or etching on metal, wood or other materials;
- f) creating cartoons to depict persons and events, often in caricature;
- g) creating and executing designs and illustrations for books, magazines, advertising and similar purposes;
- h) restoring damaged, soiled and faded paintings and other art objects;
- i) producing miniatures;
- j) making decorative tattoos on customers;
- k) performing related tasks; and
- l) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2841](#))

2841-01	Sculptor
2841-02	Cartoonist
2841-03	Painting Restorer
2841-04	Fine Art Engraver-Etcher

### UNIT GROUP 2842 **MUSICIANS, SINGERS AND COMPOSERS**

**Musicians, Singers and Composers** write, arrange, compose and adapt musical works and conduct or participate in performances.

**Tasks include:**

- a) composing songs, playing a musical instrument for training and performances, being a member of an orchestra and leading the orchestra;
- b) auditioning and selecting musicians and singers and selecting music for a performance;
- c) conceiving and writing musical compositions;
- d) adapting or arranging music for instrumental groups, instruments or occasions;
- e) conducting instrumental or vocal groups;
- f) playing one or more musical instruments as a soloist or as a member of an orchestra;
- g) singing as a soloist or member of a vocal group;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2842\)](#)

2842-01	Musician, Grade B41
2842-02	Musicologist
2842-03	Instrumentalist
2842-04	Adiguru - Ancient Malay Dance-Theatre

#### **UNIT GROUP 2843 DANCERS AND CHOREOGRAPHERS**

**Dancers and Choreographers** conceive and create or perform dances.

**Tasks include:**

- conceiving and creating dances which often convey a story, theme or idea by a sequence of steps, movements and gestures;
- arranging and directing dance performances for stage or film productions;
- performing dances as a soloist, with a partner or as a member of a dancing group;
- performing related tasks; and
- enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2843\)](#)

2843-01	Cultural Artist, Grade B32
2843-02	Dancer
2843-03	Dancer, Night Club
2843-04	Choreographer

#### **UNIT GROUP 2844 FILM, STAGE AND RELATED DIRECTORS AND PRODUCERS**

**Film, Stage and Related Directors and Producers** oversee, control and direct the technical and artistic aspects in film, television or radio productions or stage shows.

**Tasks include:**

- planning, implementing and preparing reports on performances in addition to managing performances including the preparation of the format and script of performances;
- developing arts and cultural programmes;
- planning, organising and carrying out cultural and theatrical activities;
- reviewing the script and directing actors to play their parts convincingly and directing all aspects of dramatic production on stage, television, radio or in film including casting of actors and making decisions on costume, set design, sound effects or lighting;
- negotiating royalties;
- creating, planning, writing scripts for recording, videotaping and editing programmes;
- supervising the positioning of props, lighting and sound equipment;
- viewing processed films or video tapes for the purpose of evaluation, selecting scenes and determining the scenes which need to be re-shot;
- performing related tasks; and
- enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2844\)](#)

2844-01	Cultural Officer, Grade B41
2844-02	Producer, Grade B41
2844-03	Animation Producer
2844-04	Multimedia Producer

## UNIT GROUP 2845 ACTORS

**Actors** portray roles in films, television or radio productions and stage shows.

### Tasks include:

- a) studying scripts to determine artistic interpretation;
- b) learning lines and cues and playing parts in dramatic productions on stage, television, radio or in films;
- c) narrating stories or reading literary works aloud to educate or entertain listeners;
- d) viewing processed films or video tapes to evaluate and select scenes and determine the scenes which need to be re-shot;
- e) performing related tasks; and
- f) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2845](#))

2845-01	Actor
2845-02	Impersonator
2845-03	Story Teller
2845-04	Story Teller, Radio/ Television

## UNIT GROUP 2846 ANNOUNCERS ON RADIO, TELEVISION AND OTHER MEDIA

**Announcers on Radio, Television and Other Media** read news bulletins, conduct interviews and make other announcements on radio, television or in theatres and other establishments.

### Tasks include:

- a) reading news bulletins, making other announcements and providing commentary for sports and other events on radio or television;
- b) introducing performing artists or persons being interviewed, and making related announcements on radio and television or in theatres, clubs and other establishments;
- c) interviewing the public, especially on radio and television;
- d) presenting comments on sports, politics, social or economic matters;
- e) researching, investigating and compiling stories and programmes;
- f) monitoring incoming information and liaising with network editors, journalists, media producers and directors, graphic designers, other programme departments and news sources;
- g) selecting and organising materials for broadcast;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2846](#))

2846-01	Disk Jockey (DJ)
2846-02	Radio Announcer
2846-03	Television Announcer
2846-04	Master of Ceremonies

#### UNIT GROUP 2847 CLOWNS, MAGICIANS, ACROBATS AND RELATED PROFESSIONALS

**Clowns, Magicians, Acrobats and Related Professionals** entertain audiences in circuses and other places by performing a variety of acts.

**Tasks include:**

- a) performing amusing antics and telling funny stories to amuse audiences;
- b) performing feats requiring bodily contortions;
- c) performing tricks of illusion and sleight of hand, and hypnotism;
- d) performing difficult and spectacular acrobatics, gymnastic or juggling feats;
- e) training and performing with animals;
- f) performing related tasks; and
- g) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2847](#))

2847-01	Acrobat
2847-02	Contortionist
2847-03	Magician
2847-04	Clown

#### UNIT GROUP 2848 ANIMAL KEEPERS AND TRAINERS

**Animal Keepers and Trainers** care for, train and perform with animals in zoos, bird and aquatic parks.

**Tasks include:**

- a) caring for animals in zoos, bird and aquatic parks;
- b) training and performing with animals;
- c) performing related tasks; and
- d) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2848](#))

2848-01	Trainer in Zoo, Bird and Aquatic Parks
2848-02	Trainer in Crocodile Farm
2848-03	Dog Trainer
2848-04	Horse Trainer

#### UNIT GROUP 2849 CREATIVE AND PERFORMING ARTISTS NOT ELSEWHERE CLASSIFIED

This unit group covers Creative and Performing Artists Not Elsewhere Classified in Minor Group 284: Creative and Performing Artists.

**Task Include:**

- a) taking photographs, editing, preparing photo captions and sending photographs of formal and informal activities for reference and retention;
- b) making coverage for films / videos with or without sound, filming a special programme, providing equipment, maintaining hygiene of studio and darkroom and equipment safety inside and outside the department;
- c) carrying out related tasks; and
- d) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2849](#))

2849-01	Photographer, Grade B37
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## SUB-MAJOR 29 **REGULATORY GOVERNMENT PROFESSIONALS**

**Regulatory Government Professionals** administer, enforce or apply relevant government regulations relating to national borders, taxes, social benefits, and issue or examine applications for licences or authorisations in connection with travel, import and export of goods, establishment of businesses, erection of buildings and other activities subject to government regulations.

### MINOR GROUP 291 **REGULATORY BODY PROFESSIONALS**

**Regulatory Government Professionals** administer, enforce or apply relevant government regulations relating to national borders, taxes, social benefits, and issue or examine applications for licences or authorisations in connection with travel, import and export of goods, establishment of businesses, erection of buildings and other activities subject to government regulations.

#### UNIT GROUP 2911 **PROFESSIONAL CUSTOMS AND BORDER INSPECTORS**

**Professional Customs and Border Inspectors** check persons and vehicles crossing national borders to administer and enforce relevant government regulations and laws.

##### Tasks include:

- a) classifying goods in accordance with the tariffs, making price assessment for the collection of customs duty / sales tax, processing and approving the importation / exportation of dutiable goods subject to prohibitions of imports / exports at the entrance / exit points, tax-free zones and licensed warehouses;
- b) processing licence applications for excise warehouses, licensed warehouses and licensed manufacturing warehouses;
- c) auditing accounts of companies licensed under the Sales Tax Act and Service Tax Act for collection of sales / service tax;
- d) processing applications for exemption from sales tax, checking the stock and the use of dutiable goods of companies with customs duty exemption and processing tax remission applications;
- e) supervising passenger screening duties and conducting investigation into companies / individuals committing fraud / smuggling and performing other enforcement duties;
- f) detaining persons found to be in violation of customs or immigration laws and arranging for legal action such as deportation;
- g) checking, approving and issuing travel passes and documents;
- h) searching for and seizing contraband or undeclared merchandise including through vehicles, aircraft or boats;
- i) inspecting cargo, baggage and personal articles entering or leaving the country; and
- j) investigating applications for duty refunds and petitions for remission or mitigation of penalties when warranted.

**Examples of the occupations classified here:** ([refer to index; unit group 2911](#))

2911-01	Superintendent of Customs, Grade W41
2911-02	Assistant Superintendent of Immigration / Superintendent of Immigration, Grade KP27
2911-03	Assistant Superintendent of Customs, Grade W27

## UNIT GROUP 2912 PROFESIONAL TAXATION AND EXCISE OFFICIALS

**Professional Taxation and Excise Officials** examine tax returns, bills of sale and other documents to determine the type and amount of taxes, duties and other types of fees to be paid by individuals or businesses, and refer exceptional or important cases to accountants, senior government officials or managers.

### Tasks include:

- a) providing advice on taxation matters to corporations, partnerships, organisations and individuals;
- b) giving expert advice on laws and regulations pertaining to determination and payment of taxes, duties and other government charges to organisations, industries and individuals;
- c) examining tax returns, bills of sale and other relevant documents to determine the type and amount of taxes, and employment as well as other types of fees to be paid;
- d) investigating tax filing statements and accounting records, organisational systems and internal controls to ensure compliance with tax laws and regulations;
- e) performing administrative tasks related to the discovery of documents and maintaining records and reports on the action taken in cases;
- f) reviewing in detail business accounts to ensure that the tax law has been applied correctly;
- g) applying tax laws on establishments, partnerships, organisations and individuals;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2912](#))

2912-01	Executive Officer (Appraisal), Grade 41
2912-02	Assistant Executive Officer (Appraisal), Grade 31
2912-03	Appraisal Executive Officer
2912-04	Valuation Officer

## UNIT GROUP 2913 PROFESSIONAL GOVERNMENT SOCIAL BENEFIT OFFICIALS

**Professional Government Social Benefit Officials** examine applications for government, financial or service programmes to determine eligibility and amount of benefit or appropriate services, referring exceptional or important cases to senior government officials or managers

### Tasks include:

- a) interpreting and explaining related procedures, regulations and laws to social organisations;
- b) providing advice to individuals and organisations on government legislation, rules and regulations relating to government benefit programmes, as well as the determination and distribution of payments;
- c) examining applications and other relevant documents to determine the type and amount of benefits that individuals are eligible to receive;
- d) assessing documentation and interviewing recipients to ensure eligibility for benefits or services;
- e) performing related administrative tasks to maintain customer records and preparing reports on eligibility, referral decisions, termination of benefits and abuse or fraud;
- f) enforcing procedures, regulations and laws;
- g) performing related tasks; and
- h) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 2913](#))

2913-01	Social Benefits Officer
2913-02	Social Security Claims Officer
2913-03	Pensions Officer
2913-04	SOCSO Executive

#### UNIT GROUP 2914 PROFESSIONAL GOVERNMENT LICENSING OFFICIALS

**Professional Government Licensing Officials** examine applications for licences to export or import goods, set up businesses, build houses or other structures, or to determine eligibility of applications for issuing licences or passports, and identify specific conditions or restrictions to be attached to licences issued, refer exceptional or important cases to senior government officials or managers.

**Tasks include:**

- a) interpreting and explaining related procedures, regulations and laws;
- b) advising individuals about the law and government regulations on the types of licences required and the conditions attached to the licences, and on the rights and obligations of the public;
- c) examining applications and related documents and determining whether the licences should be granted and the conditions to be attached;
- d) examining applications and approving the issue of passports;
- e) carrying out administrative tasks related to the application process, document activities, evaluation and determination, and for preparing correspondence to inform applicants of the licensing decision;
- f) administering and carrying out the necessary tests on licence applicants;
- g) enforcing procedures, regulations and laws;
- h) performing related tasks; and
- i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 2914](#))

2914-01	Enforcement Officer, Grade N41
2914-02	Assistant Enforcement Officer, Grade N27
2914-05	Licensing Officer
2914-06	Passport Issuing Officer

#### UNIT GROUP 2915 PROFESSIONAL POLICE INSPECTORS AND DETECTIVES

**Professional Police Inspectors and Detectives** investigate facts, conduct, supervise and coordinate investigations to prevent crimes or solve criminal cases.

**Tasks include:**

- a) performing administrative duties, preventing crime, investigating, apprehending and charging suspects, controlling traffic, gathering intelligence, preparing equipment and communications, preserving public security on land, sea and in the air;
- b) analysing completed police reports to determine the necessary additional information and investigative work;
- c) obtaining facts or statements from complaints, witnesses and accused persons and recording interviews using a recording device;
- d) obtaining summary of an accident from the officer in charge at the scene, taking care to avoid disturbing evidence;

- e) examining record and files to find the personal data of suspects;
- f) preparing and serving search and arrest warrants;
- g) summoning medical assistance for injured individuals and alerting medical personnel to take statements from them;
- h) providing information to lab personnel concerning the source of an item of evidence and the test to be performed;
- i) performing related tasks; and
- j) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2915](#))

2915-01	Senior Police Officer (Inspector), YA13
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#### UNIT GROUP 2916 PROFESSIONAL CIVIL DEFENCE OFFICIALS

**Professional Civil Defence Officials** supervise and investigate civil cases by enforcing procedures and regulations.

**Tasks include:**

- a) managing administrative and management matters at the state level, including managing civil defence movement training;
- b) interpreting and explaining related procedures, regulations and laws;
- c) investigating fraud;
- d) enforcing procedures, regulations and laws;
- e) performing related tasks; and
- f) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** ([refer to index; unit group 2916](#))

2916-01	Civil Defence Officer, Grade KP41
2916-02	Assistant Civil Defence Officer, Grade KP27
2916-03	Civil Defence Officer

#### UNIT GROUP 2919 REGULATORY GOVERNMENT PROFESSIONALS NOT ELSEWHERE CLASSIFIED

This unit group covers Regulatory Government Professionals Not Elsewhere Classified in Minor Group 291: Regulatory Government Professionals.

**Tasks include:**

- a) managing duties related to security covering conducting training, giving lectures, conducting safety inspections, investigating security breaches and leaks of official secrets, determining the security personnel service system and system security personal security control system;
- b) monitoring and ensuring fire fighting and rescue operations comply with the set standards and procedures;
- c) implementing the policy in prison security management, management of detention and execution of sentences, rehabilitation programmes and treatment, and management of the treatment of prisoners;
- d) helping to ensure the implementation of policies for rehabilitation programmes in institutions and the community, and prevention programmes and law enforcement related to drugs;
- e) formulating the labour policy, administration of law and labour standards, industrial harmony and union affairs, monitoring and enforcing relevant acts, giving advice

- and labour education, and promoting the increased welfare and interest of the industrial community;
- f) managing and executing projects, programmes and activities of the construction and development of Malay as the national and official language;
  - g) enforcing procedures, regulations and laws;
  - h) performing related tasks; and
  - i) enhancing knowledge and coordinating work performance.

**Examples of the occupations classified here:** [\(refer to index; unit group 2919\)](#)

2919-01	Security Officer, Grade KP41
2919-02	Executive Officer (Security), Grade 41
2919-03	Fire Superintendent, Grade KB41
2919-04	Superintendent of Prison, Grade KX41





# 3

## TECHNICIANS AND ASSOCIATE PROFESSIONALS



### **31 SCIENCE AND ENGINEERING ASSOCIATE PROFESSIONALS**

#### **311 PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS**

- 3111 Chemical and Physical Science Technicians
- 3112 Civil Engineering Technicians
- 3113 Electrical Engineering Technicians
- 3114 Electronics Engineering Technicians
- 3115 Mechanical Engineering Technicians
- 3116 Chemical Engineering Technicians
- 3117 Mining and Metallurgical Technicians
- 3118 Draughtspersons
- 3119 Physical and Engineering Science Technicians Not Elsewhere Classified

#### **312 MINING, MANUFACTURING AND CONSTRUCTION SUPERVISORS**

- 3121 Mining Supervisors
- 3122 Manufacturing Supervisors
- 3123 Construction Supervisors
- 3129 Other Supervisors Not Elsewhere Classified

#### **313 PROCESS CONTROL TECHNICIANS**

- 3131 Power Production Plant Operators
- 3132 Incinerator and Water Treatment Plant Operators
- 3133 Chemical Processing Plant Controllers
- 3134 Petroleum and Natural Gas Refining Plant Operators
- 3135 Metal Production Process Controllers
- 3139 Process Control Technicians Not Elsewhere Classified

#### **314 LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE PROFESSIONALS**

- 3141 Life Science Technicians (Excluding Medical)
- 3142 Agricultural and Poultry Technicians
- 3143 Forestry Technicians
- 3144 Fishery Technicians

#### **315 SHIP, AIRCRAFT AND TRAIN TECHNICIANS**

- 3151 Aircraft Technicians
- 3152 Ship/ Marine Technicians
- 3153 Train/ Locomotive Technicians
- 3154 Motor Vehicle Technicians
- 3159 Transport Technicians Not Elsewhere Classified

#### **316 NUCLEAR SCIENCE ASSOCIATE PROFESSIONALS**

- 3161 Nuclear Research and Development Associate Professionals



## **32 HEALTH ASSOCIATE PROFESSIONALS**

### **321 MEDICAL AND PHARMACEUTICAL TECHNICIANS**

- 3211 Medical Imaging and Therapeutic Equipment Technicians
- 3212 Medical and Pathology Laboratory Technicians
- 3213 Pharmaceutical Technicians and Assistants
- 3214 Medical and Dental Prosthetic Technicians
- 3215 Orthotic and Prosthetic Technicians

### **322 NURSING AND MIDWIFERY ASSOCIATE PROFESSIONALS**

- 3221 Nursing Associate Professionals (Except Dental)
- 3222 Midwifery Associate Professionals

### **323 TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS**

- 3231 Traditional and Complementary Medicine Associate Professionals

### **324 VETERINARY TECHNICIANS AND ASSISTANTS**

- 3241 Veterinary Technicians and Assistants

### **325 OTHER HEALTH ASSOCIATE PROFESSIONALS**

- 3251 Dental Assistants and Therapists
- 3252 Medical Record and Health Information Technicians
- 3253 Community Health Workers
- 3254 Dispensing Opticians
- 3255 Physiotherapy Technicians and Assistants
- 3256 Medical Assistants
- 3257 Environmental and Occupational Health Inspectors and Associates
- 3258 Ambulance Assistant
- 3259 Health Associate Professionals Not Elsewhere Classified

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## **33 BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS**

### **331 FINANCIAL AND MATHEMATICAL ASSOCIATE PROFESSIONALS**

- 3311 Securities and Finance Dealers and Brokers
- 3312 Credit and Loan Officers
- 3313 Accounting Associate Professionals
- 3314 Statistical, Mathematical and Actuarial Associate Professionals
- 3315 Valuers and Loss Assessors

### **332 SALES AND PURCHASING AGENTS AND BROKERS**

- 3321 Insurance Agent
- 3322 Commercial Sales Agent
- 3323 Buyers
- 3324 Trade Brokers

### **333 BUSINESS SERVICES AGENTS**

- 3331 Clearing and Forwarding Agents
- 3332 Conference and Event Agents
- 3333 Employment Agents and Contractors
- 3334 Real Estate and Property Agents
- 3339 Business Services Agents Not Elsewhere Classified

### **334 ADMINISTRATIVE AND SPECIALIZED ASSOCIATE PROFESSIONALS**

- 3341 Administrative Associate Professionals
- 3342 Legal Secretaries
- 3343 Administrative and Executive Secretaries
- 3344 Medical Secretaries

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## **34 LEGAL ASSOCIATE PROFESSIONALS**

### **341 LEGAL ASSOCIATE PROFESSIONALS**

- 3411 Legal and Related Associate Professionals

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## **35 INFORMATION AND COMMUNICATIONS TECHNICIANS**

### **351 INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATION AND USER SUPPORT TECHNICIANS**

- 3511 Information and Communications Technology Operation Technicians
- 3512 Information and Communications Technology User Support Technicians
- 3513 Computer Network and Systems Technicians
- 3514 Web Technicians

### **352 TELECOMMUNICATIONS AND BROADCASTING TECHNICIANS**

- 3521 Broadcasting and Audio-Visual Technicians
- 3522 Telecommunications Engineering Technicians





## **36 SOCIAL, CULTURAL AND RELATED ASSOCIATE PROFESSIONALS**

### **361 SOCIAL AND RELIGIOUS ASSOCIATE PROFESSIONALS**

- 3611 Social Work Associate Professionals
- 3612 Religious Associate Professionals

### **362 SPORTS, SELF DEFENCE AND FITNESS ASSOCIATE PROFESSIONALS**

- 3621 Athletes and Sports Players
- 3622 Sports Coaches, Instructors and Officials
- 3623 Fitness and Recreation Instructors and Programme Leaders

### **363 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS**

- 3631 Photographers
- 3632 Interior Designers and Decorators
- 3633 Gallery, Museum and Library Associate Professionals
- 3634 Cultural Associate Professionals
- 3639 Artistic And Cultural Associate Professionals Not Elsewhere Classified

### **364 CULINARY ASSOCIATE PROFESSIONALS**

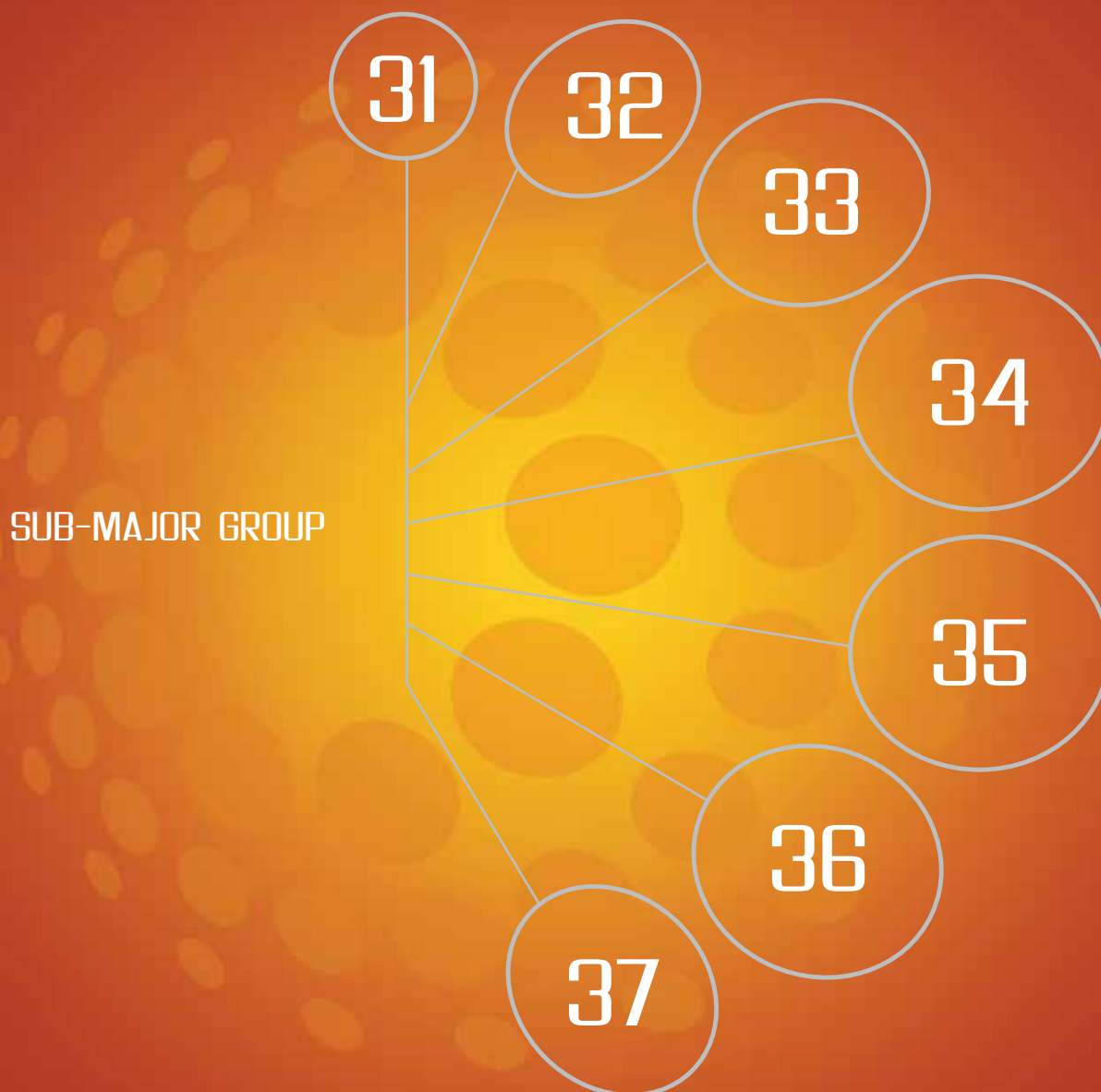
- 3641 Chefs

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## **37 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS**

### **371 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS**

- 3711 Customs and Border Inspector Associate Professionals
- 3712 Taxation and Excise Official Associate Professionals
- 3713 Government Social Benefit Official Associate Professionals
- 3714 Government Licensing Official Associate Professionals
- 3715 Police Officers
- 3716 Civil Defence Associate Professionals
- 3719 Regulatory Government Associate Professionals Not Elsewhere Classified



- 31. SCIENCE AND ENGINEERING ASSOCIATE PROFESSIONALS
- 32. HEALTH ASSOCIATE PROFESSIONALS
- 33. BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS
- 34. LEGAL ASSOCIATE PROFESSIONALS
- 35. INFORMATION AND COMMUNICATIONS TECHNICIANS
- 36. SOCIAL, CULTURAL AND RELATED ASSOCIATE PROFESSIONALS
- 37. REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS



## Description

Perform technical and related tasks connected with research and the application of scientific or artistic concepts and operational methods, and government or business regulations

## Skill Level

Most occupations in this major group require skills at the third level

SUB-MAJOR 31 SCIENCE AND ENGINEERING ASSOCIATE PROFESSIONALS

**Science and Engineering Associate Professionals** perform technical tasks connected with research and the application of concepts and operational methods in the field of physical science as well as computing and engineering, or they control and operate technical equipment to investigate the aspect of security in the manufacturing process or other processes and products.

MINOR GROUP 311 PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS

**Physical and Engineering Science Technicians** perform technical tasks related to research and the practical application of concepts, principles and operational methods connected with physical sciences including such areas as engineering, technical drawing or economic efficiency of production processes.

UNIT GROUP 3111 CHEMICAL AND PHYSICAL SCIENCE TECHNICIANS

**Chemical and Physical Science Technicians** perform technical tasks to aid in research in chemistry, physics, geology, geophysics, meteorology and astronomy, and in the development of industrial, medical, military and other practical applications of research results.

**Tasks include:**

- a) ensuring that all weather measurement sensors are operational and that all data sent out is received properly, and providing basic information for public needs;
- b) conducting chemical or microbiological analysis of routine samples, assisting in maintenance of analysis tools, preparation of reagent stock and carrying out work as directed by superiors;
- c) gathering samples and preparing materials and equipment for experiments, tests and analyses;
- d) making observations, recording, coding weather conditions, sending weather reports and maintaining weather equipment;
- e) making observations, calculations/ measurements, recording and plotting information and assisting in preparation of technical reports and documents for publication;
- f) applying technical knowledge in order to identify and solve problems arising in the course of work;
- g) supervising or maintaining and repairing research equipment;
- h) assisting in intensifying departmental activities through services in mineral, geoscience and geoscience information so as to create mineral commodities and quality geoscience development for national development;
- i) performing tasks related to the weather application, recording and transmitting weather reports based on the standards of the International Civil Aviation Organisation (ICAO) and the World Meteorological Organisation (WMO);

- j) collecting and testing earth and water samples, and analysing data in collaboration with geologists or geophysicists;
- k) performing related tasks; and
- l) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3111](#))

3111-01	Laboratory Assistant, Grade C17
3111-02	Geological Assistant, Grade C17
3111-06	Physics Technician
3111-07	Geophysics Technician

#### UNIT GROUP 3112 CIVIL ENGINEERING TECHNICIANS

**Civil Engineering Technicians** perform technical tasks in civil engineering research, design, construction, operation, maintenance and repair of buildings and other structures such as water supply and wastewater treatment systems, bridges, roads, dams and airports.

**Tasks include:**

- a) monitoring and providing construction work at the construction site, giving the estimated expenditure for the maintenance of buildings and roads, including overseeing the maintenance work;
- b) performing or assisting in field and laboratory tests of soils and construction materials;
- c) providing technical assistance connected with the construction of buildings and other structures, and with surveys or the preparation of survey reports;
- d) ensuring compliance with design specifications, relevant legislation and regulations, and maintenance of prescribed standards of materials and work;
- e) applying technical knowledge related to building and civil engineering principles and practices in order to identify and solve problems arising;
- f) assisting with the preparation of estimates of quantities and costs of materials and labour required for projects according to the specifications given;
- g) organising maintenance and repairs;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3112](#))

3112-01	Technician, Grade J17
3112-02	Technician (Civil), Grade J17
3112-04	Industrial Instrument Technician
3112-05	Civil Engineering Technician

#### UNIT GROUP 3113 ELECTRICAL ENGINEERING TECHNICIANS

**Electrical Engineering Technicians** perform technical tasks to aid in electrical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electrical equipment, facilities and distribution systems.

**Tasks include:**

- a) assisting in research and development work concerning electrical systems, equipment and facilities and testing prototypes;
- b) assisting in design and layout of electrical installations and circuitry;

- c) preparing detailed estimates of quantities and costs of materials and labour required for manufacture and installation;
- d) assisting with technical supervision of the manufacture, installation, utilisation, maintenance and repair of electrical systems and equipment;
- e) applying technical knowledge of electrical engineering theory and practice to identify and solve problems arising in the course of work;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 3113](#))

3113-01	Technician (Electrical), J17
3113-02	Electrical Engineering Technician
3113-03	Wire Cutting Technician
3113-04	High Voltage Electrical Engineering Technician

#### UNIT GROUP 3114 ELECTRONICS ENGINEERING TECHNICIANS

**Electronics Engineering Technicians** perform technical tasks to aid in electronic research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electronic equipment.

**Tasks include:**

- a) providing technical assistance in research and development of electronic equipment, or testing prototypes;
- b) assisting in design and layout of electronic circuitry;
- c) assisting with preparation of detailed estimates of quantities and costs of materials and labour required for the manufacture and installation of electronic equipment;
- d) assisting with technical supervision of the manufacture, utilisation, maintenance and repair of electronic equipment systems to ensure satisfactory performance and compliance with specifications and regulations;
- e) applying technical knowledge of electronic and telecommunications engineering principles and practices;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 3114](#))

3114-01	Technician (Electronics), J17
3114-02	Electronics Engineering Technician
3114-03	CAD/CAM Technician
3114-04	Electronics Engineering Estimator

#### UNIT GROUP 3115 MECHANICAL ENGINEERING TECHNICIANS

**Mechanical Engineering Technicians** perform technical tasks to aid in mechanical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of machines, components and mechanical equipment.

**Tasks include:**

- a) providing technical assistance in research and development work concerning machine tools, vehicle engines, aircraft, heating, ventilating and refrigerating installations and other mechanically functioning plant and equipment;
- b) designing and preparing layouts of machine installations;

- c) assisting with preparation of detailed estimates of quantities and costs of materials and labour required for manufacture and installation;
- d) assisting with technical supervision of manufacture, utilisation, maintenance and repair of mechanical plants and engines;
- e) applying technical knowledge of machinery and mechanical engineering principles and practices in order to identify and solve problems arising in the course of work;
- f) ensuring that mechanical engineering design and final output are in accordance with the specifications, regulations and provisions of contracts;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3115](#))

3115-01	Technician (Mechanical), Grade J17
3115-02	Technician (Automotive), Grade J17
3115-03	Aerospace (Mechanical) Engineering Technician
3115-04	Aeronautical Engineering Technician

#### UNIT GROUP 3116 CHEMICAL ENGINEERING TECHNICIANS

**Chemical Engineering Technicians** perform technical tasks to aid in chemical engineering research, and in the design, manufacture, construction, operation, maintenance and repair of chemical plants.

**Tasks include:**

- a) assisting in research on and development of industrial chemical processes, plants and equipment, or testing prototypes;
- b) designing and preparing layouts of chemical plants according to the specifications given;
- c) preparing detailed estimates of quantities and costs of materials and labour required for manufacture and installation, according to the specifications given;
- d) monitoring the technical aspect in construction, installation, operation, maintenance and repair of chemical plants to ensure satisfactory performance and compliance with specifications and regulations;
- e) conducting chemical and physical laboratory tests to assist scientists and engineers in the qualitative and quantitative analysis of solids, liquids and gases;
- f) applying technical knowledge of chemical engineering principles and practices in order to identify and solve problems arising in the course of work;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3116](#))

3116-01	Chemical Engineering Technician
3116-02	Chemical Process Engineering Technician
3116-03	Petroleum Engineering Technician
3116-04	Oil Technologist

## UNIT GROUP 3117 MINING AND METALLURGICAL TECHNICIANS

**Mining and Metallurgical Technicians** perform technical tasks to assist in research and experiments related to metallurgy in improving methods of extracting solid minerals, oil and gas, and in the design, construction, operation, maintenance and repair of mines and mine installations, of systems for transporting and storing oil and natural gas, and for extraction of metals from ores.

### Tasks include:

- a) gathering monthly data and information for the mining and quarrying sector;
- b) providing technical assistance in research on and development of processes to determine the properties of metals and new alloys;
- c) assisting in geological and topographical surveys, and in the design of oil, natural gas and mineral ore extraction and transport systems, and processing and refinery plant for minerals and metals;
- d) assisting in preparation of estimates of quantities and costs of materials and labour required for mineral, oil and natural gas projects and transport, and for processing and refining minerals;
- e) assisting in technical supervision of the construction, installation, operation, maintenance and repair of plants, transport and installation, storage and processing of mineral ore, oil and natural gas to ensure satisfactory performance and compliance with specifications and regulations;
- f) applying knowledge of mining, extraction, transport and storage of oil and natural gas, and of metallurgical principles and practices in order to identify and solve problems arising in the course of work;
- g) collecting and assisting in the study on all the conditions contained in the licences issued to operators of mines, quarries and mineral businesses for the purpose of standardisation and conducting inspection visits to all mining, quarrying and mineral business activities across the country;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3117](#))

3117-01	Mines Assistant, Grade C17
3117-02	Metallurgical Technician
3117-03	Extractive Metallurgical Technician
3117-04	Petroleum and Natural Gas Extraction Technician

## UNIT GROUP 3118 DRAUGHTSPERSONS

**Draughtspersons** prepare technical drawings, maps and illustrations from sketches, measurements and other data, and copy drawings and paintings onto printing plates.

### Tasks include:

- a) preparing and reviewing working drawings and specifications made by engineers and designers for the manufacture, installation and erection of equipment and machinery, or for construction, modification, maintenance and repair of buildings, dams, bridges, roads and other architectural and civil engineering projects;
- b) tracing and preparing drawings (plans) with complete specifications as per the specifications laid down;
- c) performing field work for the project site and field information collection, tracing for the preparation of landscape plans and landscape construction drawing, preparation of drawings and illustrations of landscape development projects and proposals;

- d) assisting in the work of landscape development project management, carrying out fieldwork for the management and maintenance of landscape as well as recording and documentation for implementation of landscape development;
- e) conducting site study (land use), socio-economic survey, preparing plan for policy, landscape, village study and providing information on land use;
- f) operating the digitising table or similar equipment to transfer the hard copy representation of working drawings, maps and other curves into digital form;
- g) capturing topographical data in analogue or digital form using stereo instruments to prepare and revise topographical, hydrographic, utility and other thematic maps;
- h) preparing and revising illustrations for reference, brochures and technical manuals dealing with the assembly, installation, operation, maintenance and repair of machinery and other equipment;
- i) copying drawings and paintings onto stone or metal plates for printing;
- j) performing related tasks; and
- k) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3118](#))

3118-01	Draughtsperson, Grade J17
3118-02	Landscape Technician, Grade J17
3118-04	Draughting Technician
3118-05	Draughtsperson

#### **UNIT GROUP 3119 PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS NOT ELSEWHERE CLASSIFIED**

This unit group covers Physical and Engineering Science Technicians Not Elsewhere Classified in Minor Group 311: Physical and Engineering Science Technicians.

##### **Tasks include:**

- a) collecting data and providing technical assistance on planning and production methods, efficient, safe and economic utilisation of personnel, materials and equipment, methods of work and sequence of operations and supervision of their implementation, time and motion aspects of work organisation and efficient layout of plant or establishment;
- b) identifying potential hazards and introducing safety procedures and devices;
- c) collecting data and providing technical assistance on the preparation and monitoring of cost estimates and bills of quantities for construction and architectural projects;
- d) assisting engineers in testing and design of robotic equipment;
- e) modifying and testing the equipment and devices used in the prevention, control and recovery of environmental pollution, site restoration and land reclamation;
- f) maintaining and operating all irrigation schemes under their control;
- g) assisting in the execution and processing of survey work and mapping, preparation of surveying infrastructure, determining, demarcating and surveying international and domestic borders as well as preparing and processing land surveying work and computerised mapping;
- h) conducting inspections to ensure constructions and use of vehicles comply with the Road Transport Act 1987 and the rules made thereunder;
- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3119](#))

3119-01	Surveying Technician, Grade J17
3119-02	Quantity Surveying Technician, Grade J17
3119-20	Robotics Technician
3119-21	Forensic Science Technician



## MINOR GROUP 312 MINING, MANUFACTURING AND CONSTRUCTION SUPERVISORS

**Mining, Manufacturing and Construction Supervisors** co-ordinate, supervise, control and schedule the activities of workers in manufacturing, mining and construction operations.

### UNIT GROUP 3121 **MINING SUPERVISORS**

**Mining Supervisors** oversee mining and quarrying operations and supervise and coordinate the activities of miners working in underground and surface mines and quarries.

**Tasks include:**

- a) supervising and coordinating the activities of workers who extract minerals and other natural deposits from the earth, operating underground conveyances or heavy equipment in surface mines and quarries;
- b) determining the methods to meet work schedules and recommending benchmarking to mining managers to improve productivity;
- c) making requisitions, issuing and recording materials necessary for operations;
- d) determining staffing and material needs for the mine or quarry;
- e) planning and estimating cost of production and submitting periodic progress reports;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3121](#))

3121-01	Mine Supervisor
3121-02	Quarry Supervisor

### UNIT GROUP 3122 **MANUFACTURING SUPERVISORS**

**Manufacturing Supervisors** coordinate and supervise the activities of process control technicians, machine operators, assemblers and other manufacturing labourers.

**Tasks include:**

- a) receiving, recording and dispatching products;
- b) organising and planning the daily work by taking into consideration plans, the economy, staff and the environment;
- c) making requisitions, issuing and recording materials necessary for operations;
- d) preparing monthly payroll or providing final figures for computing payroll and assisting in payment of advances and wages for workers;
- e) planning and estimating cost of production and submitting periodic progress reports;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3122](#))

3122-01	Manufacturing Supervisor
3122-02	Production Supervisor
3122-03	Finishing Supervisor
3122-04	Packaging Supervisor

#### UNIT GROUP 3123 CONSTRUCTION SUPERVISORS

**Construction Supervisors** coordinate, supervise and schedule the duties of workers engaged in the construction and repair of buildings and structures.

**Tasks include:**

- a) reading specifications to determine construction requirements and planning procedures;
- b) organising and coordinating the materials and human resources required to complete jobs;
- c) examining and inspecting work progress;
- d) examining equipment and construction sites to ensure that health and safety requirements are met;
- e) supervising construction sites and coordinating work with other construction projects;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3123\)](#)

3123-01	Operation Supervisor
3123-02	Project Supervisor
3123-03	Construction Supervisor
3123-04	Site Supervisor

#### UNIT GROUP 3129 OTHER SUPERVISORS NOT ELSEWHERE CLASSIFIED

This unit group covers Other Supervisors Not Elsewhere Classified in Minor Group 312: Mining, Manufacturing and Construction Supervisors.

**Tasks include:**

- a) receiving, recording and dispatching products;
- b) inspecting, maintaining and keeping such records as required by the management related to their area of responsibility and ensuring that all work is performed according to instructions;
- c) making requisitions, issuing and recording materials necessary for operations;
- d) planning and estimating cost of production and submitting periodic progress reports;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3129\)](#)

3129-01	Land Scheme Supervisor, Grade G17
3129-02	Environmental Supervisor
3129-03	Facilities Supervisor
3129-04	Supervisor

### MINOR GROUP 313 PROCESS CONTROL TECHNICIANS

**Process Control Technicians** operate and monitor switchboards, computerised control systems and multi-function process control machinery, and maintain processing units in electrical power generation and distribution, wastewater, sewage treatment and waste disposal plants, chemicals, petroleum and natural gas refinery in metal processing and other process operations.

#### UNIT GROUP 3131 POWER PRODUCTION PLANT OPERATORS

**Power Production Plant Operators** operate, monitor and maintain switchboards and related equipment in electrical control centres which control the production and distribution of electricity or other power in transmission networks. The equipment operated includes reactors, turbines, generators and other auxiliary equipment in electrical power generating stations.

**Tasks include:**

- a) operating and monitoring coal, oil or natural gas-fired steam power generating plant;
- b) operating and monitoring hydroelectric power generating stations;
- c) operating and controlling power generation systems and equipment including boilers, turbines, generators, condensers and reactors in hydro, heat, coal, oil, natural gas and nuclear power generating plants to generate and distribute electricity;
- d) controlling the switching operation and the water level and communicating with system operators to control and coordinate the delivery load, frequency and line voltage;
- e) taking readings from charts, meters and gauges at specified intervals, solving problems and implementing corrective action as necessary;
- f) carrying out the cleaning and maintenance of equipment such as generators, boilers, turbines, pumps and compressors to prevent malfunction or deterioration of equipment;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3131](#))

3131-01	Electric Power Load Dispatcher
3131-02	Electrical Switchboard Operator
3131-03	Hydroelectric Station Operator
3131-04	Power Generating Plant Operator

#### UNIT GROUP 3132 INCINERATOR AND WATER TREATMENT PLANT OPERATORS

**Incinerator and Water Treatment Plant Operators** monitor and operate computerised control systems and related equipment and monitor various types of plant such as incinerators, water treatment plants, sewage plants, air and gas compressors, pumping stations and refrigeration or heating and ventilation systems.

**Tasks include:**

- a) operating and monitoring incinerator machinery and equipment which burn garbage or other waste materials;
- b) operating and monitoring machinery and equipment which purify and clarify water for human consumption or use and later disposal into natural water systems;
- c) operating and monitoring machinery and equipment which regulate the treatment and disposal of sewage and wastes;

- d) operating and monitoring air and gas compressors;
- e) operating and monitoring pumping stations for transferring liquids, gases, semi-liquids and powdered substances from one location to another;
- f) operating and monitoring refrigeration systems for cool or cold storage, or industrial processes;
- g) operating and monitoring heating and ventilation systems;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3132\)](#)

3132-01	Stationary Engine Operator
3132-02	Compressor Operator
3132-03	Gas Compressor Operator
3132-04	Incinerator Plant Operator

#### UNIT GROUP 3133 CHEMICAL PROCESSING PLANT CONTROLLERS

**Chemical Processing Plant Controllers** operate and monitor chemical plants, adjust and maintain processing units and equipment which distil, filter, separate, heat or refine chemicals.

**Tasks include:**

- a) operating the electronic or computerised control panel from a central control room to monitor and optimise physical and chemical processes for several processing units;
- b) adjusting equipment, valves, pumps, control and process equipment;
- c) controlling the preparation, measuring and feeding of raw materials and processing agents such as catalysts and filtering media into plants;
- d) controlling processes and troubleshooting;
- e) verifying equipment for malfunctions, carrying out routine operating tests and arranging for maintenance;
- f) analysing product samples, performing tests, recording data and production logs;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3133\)](#)

3133-01	Chemical Process Technician
3133-02	Chemical Plant Supervisor
3133-03	Chemical-Heat-Treating Plant Operator
3133-04	Chemical-Filtering and Separating Equipment Operator

#### UNIT GROUP 3134 PETROLEUM AND NATURAL GAS REFINING PLANT OPERATORS

**Petroleum and Natural Gas Refining Plant Operators** operate and monitor plants which refine, distil and treat petroleum, petroleum-based products and by-products or natural gas.

**Tasks include:**

- a) operating the electronic or computerised control panel from a central control room to monitor and optimise physical and chemical processes for several processing units;
- b) operating and monitoring equipment to obtain oxygen and nitrogen from air for industrial and therapeutic use;

- c) operating and monitoring plants in which pressure distillate and non-condensable gases are treated;
- d) operating and monitoring pumps which circulate petroleum products or water and chemical solutions through the refinery;
- e) operating and monitoring control panels in the petroleum refinery;
- f) operating and monitoring the distillation apparatus which distils or refines petroleum products;
- g) operating and monitoring machines which blend petrol with chemicals and other additives;
- h) operating and monitoring machines which refine or otherwise treat natural gas;
- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3134\)](#)

3134-01	Pumpman (Petroleum Refining)
3134-02	Stillman (Petroleum Refining)
3134-03	Controlman (Petroleum Refining)
3134-04	Desulphuriser Operator, Petroleum Refining

#### **UNIT GROUP 3135 METAL PRODUCTION PROCESS CONTROLLERS**

**Metal Production Process Controllers** operate and monitor multi-function process control machinery and equipment to melt or reheat metal, or machines to cast metal.

**Tasks include:**

- a) coordinating and controlling metal processing production operation through control panels, computer terminals or other control systems;
- b) operating and monitoring furnaces to melt ferrous and non-ferrous metals for casting;
- c) operating and monitoring furnaces to reheat stock metal forms prior to forging, power-pressing, rolling and further processing;
- d) operating and monitoring rolling mills to mould hot or cold steel into shapes for further processing, or into final shapes;
- e) operating and monitoring rolling mills to mould hot or cold non-ferrous metal into specified shapes such as plates, sheets or foils;
- f) pouring molten metal into moulds and operating and monitoring casting machines;
- g) operating rolling mills to form hot or cold non-ferrous metal into plates, sheets, foils, wires or rods of specified dimensions;
- h) manipulating controls of rolling mills;
- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3135\)](#)

3135-01	Rolling Mill Metal Manipulator
3135-02	Guide Setter, Metal
3135-03	Metal Processing Control Operator
3135-04	Blast Furnace Operator

#### UNIT GROUP 3139 PROCESS CONTROL TECHNICIANS NOT ELSEWHERE CLASSIFIED

This unit group covers Process Control Technicians Not Elsewhere Classified in Minor Group 313: Process Control Technicians.

**Tasks include:**

- a) inspecting, maintaining and keeping such records as required by the management, relevant to their area of responsibility and ensuring that all work is performed according to instructions;
- b) making requisitions, issuing and recording materials necessary for operations;
- c) planning and estimating cost of production and submitting periodic progress reports;
- d) performing related tasks; and
- e) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3139)*

3139-01	Food Processing Technician
3139-02	Pumpman
3139-03	Stillman
3139-04	Controlman

#### MINOR GROUP 314 LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE PROFESSIONALS

**Life Science Technicians and Related Associate Professionals** perform a variety of technical tasks to support life science professionals with their research, development, management, conservation and protection work, in areas such as biology, botany, zoology, biotechnology and biochemistry, and in agriculture, fisheries and forestry.

#### UNIT GROUP 3141 LIFE SCIENCE TECHNICIANS (EXCLUDING MEDICAL)

**Life Science Technicians (Excluding Medical)** provide technical support to life science professionals undertaking research, analysis and testing of living organisms, and development and application of products and processes resulting from research in areas such as agriculture, natural resource management, environmental protection, plant and animal biology, microbiology, and cell and molecular biology.

**Tasks include:**

- a) assisting in designing, setting up and conducting experiments;
- b) setting up, calibrating, operating and maintaining laboratory instruments and equipment;
- c) collecting and preparing specimens and samples, chemical solutions and slides and growing cultures for use in experiments;
- d) performing routine field and laboratory tests;
- e) monitoring experiments to ensure adherence to correct laboratory quality control procedures and health and safety guidelines;
- f) making observations of tests, and analysing, calculating, recording and reporting test results using appropriate scientific methods;
- g) preserving, classifying and cataloguing specimens and samples;
- h) keeping detailed logs of work performed;
- i) participating in the research, development and manufacture of products and processes;
- j) ordering and stocking laboratory supplies;
- k) maintaining relevant databases;



- l) performing related tasks; and
- m) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3141\)](#)

3141-01	Biological Technician
3141-02	Entomological Technician
3141-03	Tissue Culture Technician
3141-04	Botanical Technician

#### UNIT GROUP 3142 AGRICULTURAL AND POULTRY TECHNICIANS

**Agricultural and Poultry Technicians** perform technical tasks related to research in agronomy, as well as with the development of agricultural applications of research results and provide technical and scientific support to agricultural scientists and farmers.

**Tasks include:**

- a) carrying out development work including planning, implementing, evaluating, tracking development programmes through group farming project implementation;
- b) collecting and preparing specimens such as soils, plant or animal cells, tissues or parts or organs of animals for experiments, tests and analyses;
- c) preparing and collecting specimens, materials and equipment for experiments, tests and analyses;
- d) organising maintenance and repair of farm machinery and farm equipment;
- e) overseeing product quality;
- f) assisting with and performing experiments, tests, analyses and recording observation results and other relevant information using laboratory instruments and equipment;
- g) analysing samples of seeds for quality, purity and germination rating;
- h) collecting data and estimating quantities and costs of materials and labour required for projects;
- i) applying knowledge of scientific principles and practices in order to identify and solve problems arising in the course of their work;
- j) performing related tasks; and
- k) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3142\)](#)

3142-01	Agricultural Assistant, Grade G17
3142-02	Wildlife Assistant, Grade G17
3142-04	Agronomy Technician
3142-05	Crop Research Technician

#### UNIT GROUP 3143 FORESTRY TECHNICIANS

**Forestry Technicians** perform technical tasks related to research in forestry and forest management, harvesting, resource conservation and environmental protection as well as the development of forestry applications for research results.

**Tasks include:**

- a) conducting forest inventories, surveys and field measurements following accepted scientific and operational procedures;
- b) assisting in and performing technical functions in forest management and harvest plans using photogrammetric and mapping techniques and computerised information systems;

- c) preparing and collecting specimens, materials and equipment for experiments, tests and analyses;
- d) assisting with and performing experiments, tests, analyses and recording observation results and other relevant information using laboratory instruments and equipment;
- e) analysing samples of seeds for quality, purity and germination rating;
- f) collecting data and estimating quantities and costs of materials and labour required for projects;
- g) regulating the work of forest development, operational, factory enforcement, recreational forest encroachment and work operations including revenue collection for timber forest products;
- h) reviewing and monitoring licences for forestry operation and wood-based industries;
- i) teaching trainees to operate and maintain heavy machinery in logging, techniques in road-building and timber hauling in the forest;
- j) applying knowledge of scientific principles and practices in order to identify and solve problems arising in the course of their work;
- k) performing related tasks; and
- l) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer index; unit group 3143)*

3143-01	Forest Ranger, Grade G17
3143-02	Logging Instructor, Grade G17
3143-03	Arboriculture Technician
3143-04	Forestry Technician

#### **UNIT GROUP 3144 FISHERY TECHNICIANS**

**Fishery Technicians** perform technical tasks related to research in fisheries, as well as with the development of fishery applications for research results.

**Tasks include:**

- a) preparing and collecting specimens, materials and equipment for experiments, tests and analyses;
- b) assisting with and performing experiments, tests, analyses and recording observation results and other relevant information using laboratory instruments and equipment;
- c) analysing samples of fish for quality;
- d) collecting data and estimating quantities and costs of materials and labour required for projects;
- e) organising maintenance and repair of research equipment;
- f) applying knowledge of scientific principles and practices in order to identify and solve problems arising in the course of their work;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3144)*

3144-01	Fisheries Assistant, Grade G17
3144-02	Hatchery Technician
3144-03	Hatchery Supervisor
3144-04	Fishery Technician

## MINOR GROUP 315 SHIP, AIRCRAFT AND TRAIN TECHNICIANS

**Ship, Aircraft and Train Technicians** supervise land, air and waterborne transport service operation.

### UNIT GROUP 3151 **AIRCRAFT TECHNICIANS**

**Aircraft Technicians** repair, overhaul, examine, test and service aircraft engines and other aircraft mechanical equipment.

**Tasks include:**

- a) servicing, repairing and overhauling engines of aircraft such as jets, turbo and piston engines and aircraft other mechanical equipment;
- b) testing engines using testing equipment;
- c) examining engines for cracked cylinders, oil leaks and other defects;
- d) repairing, assembling and replacing engine parts;
- e) removing the engine from aircraft for overhaul and installing replacements;
- f) inspecting, servicing and repairing pneumatic and hydraulic systems;
- g) taking charge of the Aeronautical Fixed Telecommunication Network (AFTN) system and provision of high frequency radio service and assisting with the air traffic control system in the airspace;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3151](#))

3151-01	Air Traffic Control Assistant, Grade A17
3151-02	Air Traffic Safety Technician
3151-03	Aircraft Technician
3151-04	Aviation Maintenance Technician

### UNIT GROUP 3152 **SHIP/ MARINE TECHNICIANS**

**Ship/ Marine Technicians** repair or service marine engine in workshops or on board vessels.

**Tasks include:**

- a) assisting in the provision of information and documents to develop a training course programme in navigation (nautical); marine engineering in accordance with prescribed standards;
- b) assisting in seafarer documentation matters;
- c) assisting in the management of navigational aids;
- d) managing ship and boat registration documents;
- e) repairing and servicing steam, petrol, diesel and marine engines;
- f) examining engines to locate defects using various tools and instruments;
- g) partially or completely dismantling engines to remove or repair faulty worn out parts;
- h) starting engines and observing their performance by noting different meter readings for temperature, fuel level and oil pressure, and making the necessary adjustments for optimum performance;
- i) checking, adjusting and lubricating engines periodically to keep them in good working order;
- j) performing related tasks; and
- k) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3152](#))

3152-01	Marine Assistant, Grade A17
3152-02	Berthing Master
3152-03	Yacht Skipper
3152-04	Cargo Ship Traffic Supervisor

#### **UNIT GROUP 3153 TRAIN/ LOCOMOTIVE TECHNICIANS**

**Train/ Locomotive Technicians** service and repair train/ locomotive engines.

**Tasks include:**

- a) servicing or repairing train/ locomotive engines;
- b) examining engines to locate defects using various tools and instruments;
- c) partially or completely dismantling engines to replace or adjust faulty worn out parts;
- d) checking, adjusting and lubricating engines periodically to keep them in good working order;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3153](#))

3153-01	Train Technician
3153-02	Railway Supervisor
3153-03	Locomotive Supervisor
3153-04	Light Rail Transit Supervisor

#### **UNIT GROUP 3154 MOTOR VEHICLE TECHNICIANS**

**Motor Vehicle Technicians** service and repair vehicle engines.

**Tasks include:**

- a) servicing or repairing motor vehicle engines;
- a) inspecting the engine to detect defects using various tools and instruments;
- b) opening part of or the entire engine to replace or fix worn and damaged parts;
- c) inspecting, adjusting and lubricating the engine periodically to keep it in good condition;
- d) performing related tasks; and
- e) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3154](#))

3154-01	Motor Vehicle Technician
3154-02	Motor Vehicle Engine and Fuel System Technician
3154-03	Motor Vehicle Mechatronics Technician
3154-04	Automotive Brake System Technician

#### UNIT GROUP 3159 TRANSPORT TECHNICIANS NOT ELSEWHERE CLASSIFIED

This unit group covers Transport Technicians Not Elsewhere Classified in Minor Group 315: Ship, Aircraft and Train Technicians.

**Tasks include:**

- a) supervising and coordinating service activities of the traffic department;
- b) directing and supervising activities of bus conductors and drivers within a limited geographical area;
- c) performing related tasks; and
- d) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3159\)](#)

3159-01	Road Transport Supervisor
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#### MINOR GROUP 316 NUCLEAR SCIENCE ASSOCIATE PROFESSIONALS

**Nuclear Science Associate Professionals** assist scientists in both laboratory and production activities by performing technical tasks involving nuclear physics, primarily in operation, maintenance, production and quality control support activities.

#### UNIT GROUP 3161 NUCLEAR RESEARCH AND DEVELOPMENT ASSOCIATE PROFESSIONALS

**Nuclear Research and Development Associate Professionals** collect and test samples to monitor results of nuclear experiments and contamination of humans, facilities and environment.

**Tasks include:**

- a) assisting scientists to develop new concepts, technologies and strategies to improve nuclear technology;
- b) operating equipment used for the release, control and utilisation of nuclear energy to assist scientists in laboratory;
- c) designing, coordinating and controlling technical aspects of projects;
- d) analysing test results;
- e) ensuring the preparation of the necessary materials and chemical solutions;
- f) maintaining the laboratory in a clean and tidy condition;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3161\)](#)

3161-01	Nuclear Technician
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## SUB-MAJOR 32 HEALTH ASSOCIATE PROFESSIONALS

**Health Associate Professionals** perform technical tasks related to research and the practical application of concepts, principles and operational methods in the fields of medicine, veterinary, dentistry, pharmacy, sanitation, nursing, midwifery, traditional medicine, faith healing and related disciplines.

### MINOR GROUP 321 MEDICAL AND PHARMACEUTICAL TECHNICIANS

**Medical and Pharmaceutical Technicians** perform technical tasks to assist in the diagnosis and treatment of diseases, transmission of disease, injury and disability.

#### UNIT GROUP 3211 MEDICAL IMAGING AND THERAPEUTIC EQUIPMENT TECHNICIANS

**Medical Imaging and Therapeutic Equipment Technicians** test and operate radiography, ultrasound and other medical imaging equipment to produce images of the body for the purpose of diagnosis and treatment of injuries, diseases and other disabilities. They may perform radiation treatment on patients under the supervision of a radiologist or other medical professional.

**Tasks include:**

- a) operating radiographic equipment including x-ray machine, performing radiological procedure using general x-ray equipment as well as MRI and CT scan machines whether in the ward, operation theatre and the casualty/ accident division using the mobile x-ray equipment;
- b) explaining procedures, observing and positioning patients, and using protective equipment to ensure patient safety and comfort during examination, scanning or treatment;
- c) tracking and mapping radiopharmaceuticals or radiation in the patient's body, using radioisotopes, camera and other equipment to diagnose and treat diseases;
- d) setting in position required apparatus and equipment;
- e) maintaining the laboratory in a clean and tidy condition;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3211](#))

3211-01	X-ray Technician, Grade U29
3211-02	X-ray Technician
3211-03	Radiology Technician
3211-04	Diagnostic Medical Radiographer

#### UNIT GROUP 3212 MEDICAL AND PATHOLOGY LABORATORY TECHNICIANS

**Medical and Pathology Laboratory Technicians** perform clinical tests on body fluid and tissue specimens to obtain information on the health of the patient or the cause of death.

**Tasks include:**

- a) conducting chemical analysis of body fluids including blood, urine and spinal fluid to determine presence of normal and abnormal components;
- b) operating, calibrating and maintaining equipment used in quantitative and qualitative analyses, such as the spectrophotometer, calorimeter and flame photometer;
- c) setting up, cleaning and maintaining laboratory equipment;
- d) analysing laboratory output to check the accuracy of the results;



- e) providing and collecting specimens of body fluids and tissues of patients and evaluating the results to determine the type, stage of development and sources of infection;
- f) assisting with and performing experiments, tests, analyses and recording observation results and other relevant information using laboratory instruments and equipment;
- g) providing guidance to the patient on the use, proper installation of orthotic devices, ways of walking or movement as required, means of maintaining the device so that is not harmful and in good condition;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3212)*

3212-01	Medical Technician, Grade U19
3212-02	Anatomy Technician
3212-03	Blood Bank Technician
3212-04	Biophysics Technician

#### **UNIT GROUP 3213 PHARMACEUTICAL TECHNICIANS AND ASSISTANTS**

**Pharmaceutical Technicians and Assistants** dispense and prepare medicine under the guidance of pharmacists or other health professionals.

**Tasks include:**

- a) preparing medicine and pharmaceutical compounds under the guidance of pharmacists;
- b) dispensing medicines and drugs and giving written and oral instructions on their use, as prescribed by medical doctors;
- c) cleaning and preparing equipment and containers used to prepare and dispense medicine and pharmaceutical compounds;
- d) conducting routine laboratory tests to determine characteristics of pharmaceutical products;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3213)*

3213-01	Pharmaceutical Assistant
3213-02	Pharmaceutical Laboratory Assistant
3213-03	Pharmaceutical Technician
3213-04	Pharmacy Aide

#### **UNIT GROUP 3214 MEDICAL AND DENTAL PROSTHETIC TECHNICIANS**

**Medical and Dental Prosthetic Technicians** design, adjust, service and repair medical and dental devices and equipment according to prescription or instruction from health professionals. They make full or partial dentures, inlays, bridges and crowns of metal vulcanite or other composition plates from wax or plaster impressions.

**Tasks include:**

- a) discussing with medical and dental practitioners to formulate specifications and prescriptions of devices and equipment;
- b) making special impressions as instructed by the dental surgeon and preparing plaster casts of upper and lower jaws from wax impressions;

- c) shaping metal vulcanite or plastic plates for dentures and setting false teeth in plates;
- d) processing dentures in acrylic resin or metal and bridges according to the impression taken;
- e) forming porcelain teeth and crowns and repairing or making additions to existing dentures;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3214\)](#)

3214-01	Dental Technician
3214-02	Denturist
3214-03	Orthotic Technician
3214-04	Orthotist

#### **UNIT GROUP 3215 ORTHOTIC AND PROSTHETIC TECHNICIANS**

**Orthotic and Prosthetic Technicians** measure, design, fabricate, fit or service a prosthetic as prescribed by a doctor, and assist in the formulation of the prosthesis prescription for the replacement of external parts of the human body lost due to amputation or congenital deformities or absences.

**Tasks include:**

- a) ensuring devices fit well and that patients have an acceptable range of movement;
- b) crafting prosthetic limbs from softer plastics;
- c) performing related tasks; and
- d) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3215\)](#)

3215-01	Orthopaedic Technician
3215-02	Prosthetic Technician

#### **MINOR GROUP 322 NURSING AND MIDWIFERY ASSOCIATE PROFESSIONALS**

**Nursing and Midwifery Associate Professionals** apply medical concepts and principles relating to the nursing of the ill, injured or disabled, and care of mothers and their newborn babies.

#### **UNIT GROUP 3221 NURSING ASSOCIATE PROFESSIONALS (EXCEPT DENTAL)**

**Nursing Associate Professionals (Except Dental)** provide basic nursing and personal care for people who are physically or mentally ill, disabled or infirm, and others in need of care due to risks to health.

**Tasks include:**

- a) providing nursing care, treatment and advice to the ill, injured, disabled and others in need of such care;
- b) assisting medical doctors in their tasks, administering medicine and drugs, applying surgical dressings and giving other forms of treatment under the instruction of medical doctors;
- c) assisting in treatment in emergencies;
- d) assisting in preparation of physical and psychiatric treatment of mentally ill patients;

- e) assisting in preparation for social adjustment, development and education of mentally or physically handicapped patients;
- f) providing nursing care to patients in their homes;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3221\)](#)

3221-01	Nurse, Grade U29
3221-02	Nursing Assistant
3221-03	Enrolled Nurse
3221-04	Practical Nurse

#### **UNIT GROUP 3222 MIDWIFERY ASSOCIATE PROFESSIONALS**

**Midwifery Associate Professionals** deliver or assist doctors in the delivery of babies, provide ante-natal and post-natal care and advise parents on baby care.

##### **Tasks include:**

- a) performing a variety of tasks and being a member of the health team directly serving the public;
- b) advising expectant mothers on appropriate diet, exercise and conduct to ease pregnancy and childbirth, and noting their general health;
- c) assisting doctors in deliveries;
- d) attending to mothers in the post-natal period to supervise their recovery, check on babies' health and advise parents on baby care;
- e) conducting health education classes and seminars to promote the health of mothers and infants;
- f) advising on birth control methods;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3222\)](#)

3222-01	Community Nurse, Grade U19
3222-02	Traditional Midwife
3222-03	Midwifery Assistant

#### **MINOR GROUP 323 TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS**

**Traditional and Complementary Medicine Associate Professionals** prevent, care for and treat physical and mental illnesses, disorders and injuries using herbal and other therapies based on theories, beliefs and experiences originating in specific cultures.

#### **UNIT GROUP 3231 TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS**

**Traditional and Complementary Medicine Associate Professionals** treat mental and physical sickness using herbs, medicinal plants and other traditional techniques employed in the community and advise on methods to preserve or improve the health and well-being of a person.

**Tasks include:**

- a) examining patients, making diagnoses and treating diseases and injuries using herbs, medicinal plants and other traditional techniques employed in the community;
- b) advising the community and individuals on proper diet and conduct to preserve or improve health and well-being;
- c) performing related tasks; and
- d) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3231](#))

3231-01	Traditional Malay Medicine Practitioner
3231-02	Traditional Chinese Medicine Practitioner
3231-03	Traditional Indian Medicine Practitioner
3231-04	Traditional Chinese Medicine Dispenser

**MINOR GROUP 324 VETERINARY TECHNICIANS AND ASSISTANTS**

**Veterinary Technicians and Assistants** advise, carry out diagnostic, preventive and curative veterinary tasks more limited in scope and complexity than those carried out by veterinarians. They care for animals under treatment and assist veterinarians to perform procedures and treatment.

**UNIT GROUP 3241 VETERINARY TECHNICIANS AND ASSISTANTS**

**Veterinary Technicians and Assistants** advise, carry out diagnostic, preventive and curative veterinary tasks more limited in scope and complexity than those carried out by veterinarians. They care for animals under treatment and assist veterinarians to perform procedures and treatment.

**Tasks include:**

- a) helping to carry out the duties of animal management and enforcement, management of animal health, animal fertility management, inspection of animal quarantine centre, ante-mortem and post-mortem inspection at slaughterhouses and processing plants and advising on farming, enforcement of veterinary legislation, and data collection of animals;
- b) advising the community and individuals on the treatment of animals and their diseases and injuries;
- c) examining animals to make diagnoses or referring more difficult cases to veterinarians when needed;
- d) treating ill or injured animals, especially for common diseases and disorders;
- e) preparing and maintaining instruments and materials used in the treatment of animals;
- f) carrying out technical tasks connected with artificial insemination of animals;
- g) preparing animals for examination or treatment and holding them during treatment, if necessary;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3241](#))

3241-01	Veterinary Assistant, Grade G17
3241-02	Veterinary Technician
3241-03	Veterinary Biotech Research Technician
3241-04	Veterinary Vaccinator

## MINOR GROUP 325 OTHER HEALTH ASSOCIATE PROFESSIONALS

**Other Health Associate Professionals** include other health associate professionals engaged in health activities outside the scope of those classified in minor groups 321-324.

### UNIT GROUP 3251 DENTAL ASSISTANTS AND THERAPISTS

**Dental Assistants and Therapists** carry out advisory, diagnostic, preventive and curative dental tasks more limited in scope and complexity than those carried out by dentists, and assist dentists by preparing and maintaining instruments and other equipment, preparing materials and helping patients prepare for examination and treatment.

**Tasks include:**

- a) examining, diagnosing and managing the treatment of patients under their care and referring to the dental officer for further action;
- b) carrying out health education activities through brushing instruction, lectures and health campaign exhibitions;
- c) providing advice to the community and the individual on dental hygiene, diet and other preventive dental measures;
- d) carrying out dental examinations to make diagnoses and referring more complex cases to dentists when necessary;
- e) preparing and maintaining dental instruments and equipment;
- f) preparing dental materials;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3251](#))

3251-01	Dental Nurse, Grade U29
3251-02	Dental Surgery Assistant, Grade U17
3251-03	Dental Health Nurse
3251-04	Dental Nurse

### UNIT GROUP 3252 MEDICAL RECORD AND HEALTH INFORMATION TECHNICIANS

**Medical Record and Health Information Technicians** organise and evaluate the results of examinations, reports on x-rays and laboratory tests, diagnoses and treatment plans for completeness and accuracy.

**Tasks include:**

- a) planning, developing, maintaining and managing a variety of health record indexes for the collection, classification, storage and analysis of information using computer programs to tabulate and analyse data to improve patient care, improve cost control, provide documentation for use in legal action or in research studies;
- b) copying, compiling and processing the patients' medical records, admission and discharge documents and other medical reports in the record-keeping system to provide data for monitoring and referrals;
- c) protecting the security of medical records;
- d) performing related tasks; and
- e) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3252](#))

3252-01	Medical Record Technician
3252-02	Clinical Coder
3252-03	Disease Registry Technician
3252-04	Medical Record Analyst

## UNIT GROUP 3253 COMMUNITY HEALTH WORKERS

**Community Health Workers** carry out advisory, diagnostic, preventive and curative medical tasks more limited in scope and complexity than those carried out by medical doctors. They provide support and assistance to individuals and families in the health and social service system.

### Tasks include:

- providing information to families and the community on various health issues including nutrition, hygiene, care of infants and children, immunisation, family planning, risk factors and prevention of normal, infectious diseases, poison prevention, first aid treatment for simple and common afflictions, abuse, domestic violence and other topics;
- advising the community and individuals on hygiene, diet and other preventive medical measures;
- conducting medical examinations to diagnose diseases and/or referring more difficult cases to medical doctors when necessary;
- distributing medical supplies to households to prevent and treat endemic diseases such as malaria, pneumonia and diarrhoeal diseases;
- visiting families in their homes to provide information about health, social services and other services;
- prescribing medicine and giving treatment for diagnosed illnesses, disorders or injuries;
- collecting household and community data for the purpose of monitoring and referrals, and preparing reports to meet health regulations;
- performing related tasks; and
- supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3253](#))

3253-01	Community Health Aide
3253-02	Community Health Promoter
3253-03	Community Health Worker
3253-04	Village Health Worker

## UNIT GROUP 3254 DISPENSING OPTICIANS

**Dispensing Opticians** design, fit and dispense optical lenses based on a prescription from an ophthalmologist or optometrist for the correction of reduced visual acuity. They also advise patients on the wearing of and care for their spectacles and contact lenses.

### Tasks include:

- interpreting optical prescriptions written by optometrists or ophthalmologists;
- giving advice to patients on lens type, frames and styles;
- fitting contact lenses and giving advice on their care and use;
- taking frame and facial measurements to ensure correct fit and positioning;
- advising patients when adjustments or fixing of spectacles are required;
- examining lenses upon receipt to ensure they meet the required specifications;
- performing related tasks; and
- supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3254](#))

3254-01	Optician, Contact Lens Dispensing
3254-02	Contact Lens Optician
3254-03	Dispensing Optician



## UNIT GROUP 3255 PHYSIOTHERAPY TECHNICIANS AND ASSISTANTS

**Physiotherapy Technicians and Assistants** provide physical therapy to patients whose movements have been affected by disease, injury or degeneration. The therapy has usually been prescribed by a physiotherapist or other health professional to rehabilitate the patients.

### Tasks include:

- a) advising the community and individuals on correct body postures at work or otherwise, to avoid injuries and strain and to strengthen muscles;
- b) conducting examinations to make diagnoses of disorders of bones, muscles and parts of the circulatory or the nervous system to determine proper treatment or referring to medical doctors, if necessary;
- c) treating disorders of bones, muscles and parts of the circulatory or the nervous system by manipulative methods and the use of ultrasound, heating, laser or similar techniques;
- d) massaging clients to improve blood circulation, soothe or stimulate nerves, facilitate elimination of waste matter, stretch contracted tendons and produce other therapeutic effects;
- e) applying physiotherapy and related techniques as part of the treatment of physically or mentally disabled persons; and
- f) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 3255](#))

3255-01	Physiotherapy Assistant
3255-02	Electrotherapist
3255-03	Acupressure Therapist
3255-04	Hydrotherapist

## UNIT GROUP 3256 MEDICAL ASSISTANTS

**Medical Assistants** perform basic clinical and administrative tasks to support patient care under the direct supervision of a medical practitioner or other health professionals.

### Tasks include:

- a) advising the community and individuals on hygiene, diet and other preventive medical measures;
- b) conducting medical examinations to diagnose illness and/or referring more difficult cases to medical doctors when necessary;
- c) prescribing medicine and giving treatment for diagnosed illnesses, disorders or injuries;
- d) performing simple surgical operations;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3256](#))

3256-01	Public Health Assistant, Grade U17
3256-02	Medical Laboratory Assistant
3256-03	Hospital Assistant
3256-04	Medical Assistant

## UNIT GROUP 3257 ENVIRONMENTAL AND OCCUPATIONAL HEALTH INSPECTORS AND ASSOCIATES

**Environmental and Occupational Health Inspectors and Associates** inspect environmental factors which can affect human health, occupational safety and the goods production or service process in accordance with related laws and regulations.

### Tasks include:

- a) advising representatives of employers and workers on the implementation of government and other rules and regulations concerning occupational safety and the work environment;
- b) inspecting places of work to ensure that the work environment, machinery and equipment conform to government and other rules and regulations;
- c) inspecting areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules and regulations;
- d) inspecting products or finished components to ensure compliance of the specifications and standards of the manufacturer;
- e) advising enterprises and the general public on the implementation of government and other rules and regulations concerning hygiene, sanitation, purity and grading of primary products, food, drugs, cosmetics and similar goods;
- f) advising producers, operators and those maintaining and repairing aircraft, cars and other vehicles on the implementation of government and other rules and regulations concerning technical standards and conditions of vehicles;
- g) inspecting vehicles and places authorised to maintain and repair vehicles to ensure that they conform to standards and government and other regulations;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3257\)](#)

3257-01	Public Health Inspector
3257-02	Public Health Safety Inspector
3257-03	Public Health Unit Supervisor
3257-04	Public Health Restaurant Inspector

## UNIT GROUP 3258 AMBULANCE ASSISTANTS

**Ambulance Assistants** provide emergency health care to patients who are injured, sick, infirm, or otherwise physically or mentally impaired prior to and during transport to medical facilities.

### Tasks include:

- a) delivering appropriate care and treatment to preserve life, preventing a patient's condition from deteriorating and promoting recovery;
- b) assessing the health status of persons involved in accidents, natural disasters and other emergency situations, and determining needs for immediate medical assistance;
- c) performing medical procedures and administering drugs and other therapies according to the procedure for emergency medical treatment, including resuscitating and defibrillating patients and operating life support equipment;
- d) monitoring changes in the health status of patients during transport from medical, rehabilitation and other health care facilities;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3258)*

3258-01	Ambulance Assistants
3258-02	Ambulance Officer
3258-03	Ambulance Paramedic
3258-04	Emergency Medical Technician

**UNIT GROUP 3259 HEALTH ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED**

This unit group covers Health Associate Professionals Not Elsewhere Classified in Minor Group 325: Other Health Associate Professionals.

**Tasks include:**

- a) determining the type of disease or condition affecting the patient;
- b) interviewing and examining patients to obtain information on their health status and the nature and extent of injury, illness or other physical or mental health problem;
- c) monitoring the health of patients through the treatment plan, and identifying the signs and symptoms that require referral to a medical doctor or other health professional;
- d) storing information on the patient's health status and response to treatment in the medical record-keeping system;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3259)*

3259-01	Chiropractor
3259-02	Osteopath

## SUB-MAJOR 33 **BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS**

**Business and Administration Associate Professionals** perform mostly technical tasks connected with the practical application of knowledge relating to financial accounting and transaction matters, mathematical calculations, human resource development, sale and purchase of financial instruments and specialised secretarial tasks. They include workers who provide business services such as conference planning, job placements, sale and purchase of real estate or bulk commodities, and agents for performers such as athletes and artists.

### MINOR GROUP 331 **FINANCIAL AND MATHEMATICAL ASSOCIATE PROFESSIONALS**

**Financial and Mathematical Associate Professionals** place a value on various items and property, maintain records of financial transactions, analyse loan application information and make decisions, buy and sell financial instruments, and perform mathematical and related calculations.

#### UNIT GROUP 3311 **SECURITIES AND FINANCE DEALERS AND BROKERS**

**Securities and Finance Dealers and Brokers** buy and sell securities, stocks, bonds and other financial instruments, and deal on the foreign exchange on spot or on futures markets on behalf of their own company or for customers on a commission basis and recommend transactions to clients or senior management.

**Tasks include:**

- a) obtaining information about the financial circumstances of customers and companies in which investments may be made;
- b) analysing market trends for securities, bonds, stocks and other financial instruments, including foreign exchange;
- c) informing prospective customers about market conditions and prospects;
- d) advising on and participating in the negotiation of terms for and organisation of loans and placement of stocks and bonds in the financial market to raise capital for customers;
- e) recording and transmitting buy and sell orders for securities, stocks, bonds or foreign exchange;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3311](#))

3311-01	Securities Broker
3311-02	Stock and Share Broker
3311-03	Foreign Exchange Broker
3311-04	Stock Broker

#### UNIT GROUP 3312 **CREDIT AND LOAN OFFICERS**

**Credit and Loan Officers** analyse and evaluate financial information on applications for credit and loans and approve or disapprove, or recommend approval or disapproval to the management.

**Tasks include:**

- a) interviewing applicants for personal loans, mortgage loans, student loans and business loans;
- b) submitting credit and loan applications to the management with recommendations for approval or rejection;

- c) keeping records of payments, and preparing letters requesting payment for overdue accounts and forwarding these for legal action;
- d) completing credit and loan documentation;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3312)*

3312-01	Mortgage Officer
3312-02	Loan Officer
3312-03	Credit Control Executive
3312-04	Credit Supervisor

#### **UNIT GROUP 3313 ACCOUNTING ASSOCIATE PROFESSIONALS**

**Accounting Associate Professionals** maintain complete records of financial transactions of an undertaking and verify accuracy of documents and records relating to such transactions.

**Tasks include:**

- a) performing financial and accounting tasks;
- b) maintaining complete records of all financial transactions of an undertaking according to general accounting principles with guidance from accountants;
- c) verifying accuracy of documents and records relating to payments, receipts and other financial transactions;
- d) preparing financial statements and reports for specified periods;
- e) performing accounting calculation using standard computer software packages;
- f) providing assistance in the preparation of cash flow projection and budgets;
- g) applying knowledge of accounting principles in order to identify and solve problems arising in the course of their work;
- h) enforcing the legal penalty of financial affairs management and providing counselling in terms of accounting systems, administrative and legal management of cooperatives and duties as directed from time to time;
- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3313)*

3313-01	Accounting Assistant, Grade W17
3313-02	Audit Assistant, Grade W17
3313-05	Book-Keeper
3313-06	Accounts Supervisor

#### **UNIT GROUP 3314 STATISTICAL, MATHEMATICAL AND ACTUARIAL ASSOCIATE PROFESSIONALS**

**Statistical, Mathematical and Actuarial Associate Professionals** assist in planning the collection, processing and presentation of mathematical, statistical or actuarial data and in carrying out these operations, usually under the guidance of mathematicians and related professionals or statisticians.

**Tasks include:**

- a) performing work related to collecting, processing and dissemination of data in macro-economics, commerce, population, demographics, manpower and the environment for national development and administrative planning;

- b) preparing detailed estimates of quantities and costs of materials and labour required for statistical census and survey operations;
- c) performing technical tasks connected with establishing, maintaining and using registers and sampling frames for census and survey operations;
- d) performing technical tasks connected with data collection and quality control operations in censuses and surveys;
- e) using standard computer software packages to perform mathematical, actuarial, statistical and related calculations;
- f) preparing mathematical, actuarial, statistical and other results for presentation in graphical or tabular form;
- g) applying knowledge of mathematical, actuarial, statistical and related principles and practices in order to identify and solve problems arising in the course of their work;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3314\)](#)

3314-01	Statistical Assistant, Grade E17
3314-02	Mathematical Assistant
3314-03	Actuarial Assistant

#### **UNIT GROUP 3315 VALUERS AND LOSS ASSESSORS**

**Valuers and Loss Assessors** value property and various goods and assess losses covered by insurance policies.

**Tasks include:**

- a) determining the value of raw materials, real estate, industrial equipment, personal and household effects, works of art, gems and other objects offered for sale or to be insured;
- b) assessing the extent of damage or loss and liabilities of insurance companies and underwriters for losses covered by insurance policies;
- c) inspecting items or property to evaluate condition, size and construction;
- d) obtaining records of sales and value of similar items or property;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3315\)](#)

3315-01	Valuation Assistant, Grade W17
3315-02	Appraiser
3315-03	Valuer
3315-04	Revenue Assessor



## MINOR GROUP 332 SALES AND PURCHASING AGENTS AND BROKERS

**Sales and Purchasing Agents and Brokers** represent companies, the government or other organisations in the sale and purchase of commodities, goods, insurance, shipping and other services to industries, professionals, commercial or other establishments or act as private agents to accompany buyers and sellers of commodities and services in negotiations.

### UNIT GROUP 3321 INSURANCE AGENTS

**Insurance Agents** advise on and sell life, accident, automobile, liability, endowment, fire, marine and other types of insurance to new and existing clients.

**Tasks include:**

- a) obtaining information about customers' circumstances necessary to determine the appropriate type of insurance and conditions;
- b) negotiating with customers to determine the type and degree of risk for which insurance is derived, extent of coverage and terms of payment;
- c) negotiating and placing reinsurance contracts;
- d) advising on, negotiating terms for and placing insurance contracts for large or special types of projects, installations or risks;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3321](#))

3321-01	Insurance Agent
3321-02	Insurance Broker
3321-03	Insurance Underwriter
3321-04	Insurance Consultant

### UNIT GROUP 3322 COMMERCIAL SALES AGENT

**Commercial Sales Agent** sell various goods and services to retail, industrial, wholesale and other establishments and provide specific information on products as required.

**Tasks include:**

- a) acquiring and updating knowledge of employers' and competitors' products and understanding market conditions;
- b) soliciting orders and selling goods to retail, industrial, wholesale and other establishments;
- c) selling technical equipment, supplies and related services to business establishments or individuals;
- d) providing prospective customers with general and specialised information and the characteristics and functions of the equipment being promoted, and demonstrating its use;
- e) quoting and negotiating prices and credit terms, completing contracts and recording orders;
- f) arranging for delivery of goods, installation of equipment and provision of services;
- g) reporting to sales management on sales made and the marketability of products;
- h) reporting customers' reactions and requirements to manufacturers;
- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3322](#))

3322-01	Salesperson
3322-02	After Sales Service Adviser
3322-03	Canvasser
3322-04	Sales Representative

#### UNIT GROUP 3323 BUYERS

**Buyers** buy goods and services for use or resale on behalf of industrial, commercial, government or other enterprises and organisations.

**Tasks include:**

- a) negotiating and entering into a contract for the purchase of equipment, raw materials, products and supplies as well as the purchase of merchandise for resale;
- b) obtaining information about requirements and stock, and determining the quantity and quality to be purchased, costs, delivery dates and other contract conditions;
- c) negotiating with suppliers and review quotations;
- d) purchasing of goods for resale by retail or wholesale establishments;
- e) reviewing of market reports, trade magazines and sales promotion materials and visit trade events, showrooms, factories and product design functions;
- f) selecting items or products that meet the needs of the establishment;
- g) interviewing suppliers and negotiate prices, discounts, credit terms and transportation arrangements;
- h) monitoring the distribution of goods store and maintain adequate stock levels;
- i) determining delivery schedules, monitoring progress and contacting clients and suppliers to resolve problems
- j) performing related tasks; and
- k) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 3323](#))

3323-01	Planning and Distribution Executive
3323-02	Purchasing Executive
3323-03	Buyer
3323-04	Buyer, Production Purchasing

#### UNIT GROUP 3324 TRADE BROKERS

**Trade Brokers** buy and sell commodities, usually in bulk, and shipping services on a commission basis for their organisation or clients.

**Tasks include:**

- a) discussing buying or selling requirements of the client and giving advice accordingly;
- b) negotiating purchase/ sale by private agreement of goods unsold at auction;
- c) buying and selling cargo space on ships;
- d) monitoring and analysing market trends and other factors that may affect demand and supply;
- e) carrying out customs clearing procedures for exports or imports;
- f) signing and issuing bills of lading;
- g) making sure that the business service purchased is made available to the buyer in the agreed format at the agreed time;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 3324](#))

3324-01	Commodity Broker
3324-02	Shipping Broker
3324-03	Trade Broker

### MINOR GROUP 333 **BUSINESS SERVICES AGENTS**

**Business Services Agents** establish contracts to sell various business services such as carrying out customs clearance activities, matching jobseekers with vacancies, finding workers for employers, planning and organising conferences and similar events, and arranging the sale and purchase of real estate.

#### UNIT GROUP 3331 **CLEARING AND FORWARDING AGENTS**

**Clearing and Forwarding Agents** carry out customs clearing procedures and ensure that insurance, export/import licences and other formalities are in order.

**Tasks include:**

- a) carrying out customs clearing procedures for exports or imports;
- b) ensuring that insurance is in order;
- c) ensuring that export/ import licences and other formalities are in order;
- d) signing and issuing bills of lading;
- e) checking import/ export documentation to determine cargo contents, and classifying goods into different fee or tariff groups using a tariff coding system;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3331\)](#)

3331-01	Clearing Agent
3331-02	Forwarding Agent
3331-03	Shipping Agent

#### UNIT GROUP 3332 **CONFERENCE AND EVENT AGENTS**

**Conference and Event Agents** organise and coordinate services for conferences, events, functions, banquets and seminars.

**Tasks include:**

- a) promoting conferences, conventions and trade shows to potential customers;
- b) responding to queries concerning services provided and costs for room and equipment hire, catering and related services;
- c) meeting with clients to discuss their needs and outlining options to meet these needs;
- d) arranging and coordinating services such as conference facilities, catering, signage, displays, audio-visual and computer equipment, accommodation, transport and social events for participants, as well as logistical arrangements for presenters;
- e) handling registration of participants;
- f) negotiating the type and costs of services to be provided within budget;
- g) overseeing work by contractors and reporting on variations to work procedure;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3332\)](#)

3332-01	Exhibition and Convention Consultant
3332-02	Exhibition and Convention Organiser
3332-03	Travel Consultant
3332-04	Travel Organiser

#### UNIT GROUP 3333 EMPLOYMENT AGENTS AND CONTRACTORS

**Employment Agents and Contractors** match jobseekers with vacancies, find workers for employers and contract labour for particular projects at the request of enterprises and other organisations.

**Tasks include:**

- a) matching job seekers with vacancies;
- b) finding workers for vacant posts against a commission from the employer or worker;
- c) discussing with enterprises/ organisations the necessary skills and other characteristics of the workers to be employed or contracted;
- d) finding workers with appropriate skills and undertaking the necessary formalities according to national or international regulations and requirements;
- e) ensuring that the employment contracts meet legal requirements and signing them;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3333](#))

3333-01	Employment Agent
3333-02	Job Placement Officer
3333-03	Labour Contractor

#### UNIT GROUP 3334 REAL ESTATE AND PROPERTY AGENTS

**Real Estate and Property Agents** arrange the sale, purchase, rental and lease of real estate, usually on behalf of clients and on a commission basis.

**Tasks include:**

- a) obtaining information about properties to be sold or leased, the circumstances of their owners and the stipulations and needs of prospective buyers or tenants;
- b) showing properties to be sold or leased to prospective buyers or tenants and explaining terms of sale or conditions of rent or lease;
- c) arranging signing of lease agreements and transfer of property rights;
- d) collecting rent and deposits on behalf of owners and inspecting properties before, during and after tenancies;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3334](#))

3334-01	Real Estate Agent
3334-02	Property Agent
3334-03	Property Realtor
3334-04	Property Negotiator

#### UNIT GROUP 3339 BUSINESS SERVICES AGENTS NOT ELSEWHERE CLASSIFIED

This unit group covers Business Services Agents Not Elsewhere Classified in Minor Group 333: Business Services Agents.

**Tasks include:**

- a) obtaining information about services for sale and needs of prospective buyers;

- b) negotiating contracts on behalf of the seller or buyer and explaining the terms of sale and payment to the client;
- c) signing agreements on behalf of the seller or buyer and ensuring that the contract is honoured;
- d) making sure that the business service purchased is made available to the buyer in the agreed format at the agreed time;
- e) selling by auction various kinds of property, cars, commodities, livestock, art, jewellery and other objects;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3339)*

3339-01	Auctioneer
3339-02	Literary Agent
3339-03	Musical Performance Agent
3339-04	Sports Agent

#### **MINOR GROUP 334 ADMINISTRATIVE AND SPECIALISED ASSOCIATE PROFESSIONALS**

**Administrative and Specialised Associate Professionals** provide organisational communication and documentation support activities. They take supervisory responsibility for office clerks in the organisation.

#### **UNIT GROUP 3341 ADMINISTRATIVE ASSOCIATE PROFESSIONALS**

**Administrative Associate Professionals** carry out administrative duties in the support group.

##### **Tasks include:**

- a) coordinating, assigning and reviewing the work of clerks engaged in the following duties: word processing, record keeping and filing; operating telephones and switchboards; data entry; desktop publishing, and other activities involving general office and administrative skills;
- b) setting work schedules and procedures and co-ordinate activities with other work units or departments;
- c) solving problems related to work and prepare and submit progress and other reports;
- d) training and instructing employees in job duties, safety procedures and company policies or arrange for training to be provided;
- e) evaluating staff performance and compliance regulations, and recommend appropriate personnel action;
- f) be responsible to the President of the Senate, Secretary of the Senate (SUDN), the Secretary of the House of Representatives (Sudr) and Assistant Secretary General of the House Management (KPSU PD);
- g) hiring, interviewing, and selecting employees; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3341)*

3341-01	Sergeant-at-Arms, Grade N27
3341-02	Data Entry Supervisor
3341-03	Hospital Admission Clerical Supervisor
3341-04	Filling Clerk Supervisor

#### UNIT GROUP 3342 LEGAL SECRETARIES

**Legal Secretaries** apply specialised knowledge of legal terminology and procedures in providing support to legal professionals in communication, documentation and internal managerial coordination activities in law offices, legal departments of large firms and government offices.

**Tasks include:**

- a) performing the duties associated with the legislation, including the registration, trial, suit, prosecution and administration of the court;
- b) preparing and processing legal documents and papers such as deeds, wills, affidavits and briefs;
- c) reviewing and proofreading documents and correspondence to ensure compliance with legal procedures;
- d) preparing verbatim reports on proceedings in the legislative assemblies, courts of law or other places in shorthand or by other methods;
- e) mailing, faxing or arranging for delivery of legal correspondence to clients, witnesses and court officials;
- f) organising and maintaining documents, case files and law libraries;
- g) screening requests for meetings, scheduling and organising meetings;
- h) assisting in the preparation of budgets, monitoring of expenditures, drafting of contracts and purchase or taking orders;
- i) assisting the head of unit and other staff with queries of an administrative or organisational nature; and
- j) supervising the work of office clerks.

**Examples of the occupations classified here:** ([refer to index; unit group 3342](#))

3342-01	Shariah Assistant, Grade LS17
3342-02	Legal Secretary

#### UNIT GROUP 3343 ADMINISTRATIVE AND EXECUTIVE SECRETARIES

**Administrative and Executive Secretaries** implement and support the communication, documentation and internal managerial coordination activities of an organisational unit to assist the head of unit and other members of staff and/or prepare correspondence, reports and records of proceedings and other specialised documentation.

**Tasks include:**

- a) drafting correspondence and minutes;
- b) obtaining, proposing and monitoring deadlines and follow-up dates;
- c) screening requests for meetings, scheduling and organising meetings and travel arrangements for the head of unit and other members of staff;
- d) assisting in the preparation of budgets, monitoring of expenditures, drafting of contracts and purchase or taking of orders;
- e) assisting the head of unit and other staff with queries of an administrative or organisational nature;
- f) liaising with other staff about a range of matters relating to organisational operations;
- g) writing and answering business or technical letters and other similar correspondence;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3343](#))

3343-01	Assistant Executive Officer (Secretarial), Grade 31
3343-02	Assistant Executive Officer (Secretarial), Grade 6
3343-04	Personal Assistant
3343-05	Administrative Executive Assistant



#### UNIT GROUP 3344 MEDICAL SECRETARIES

**Medical Secretaries** using specialised knowledge of medical terminology and procedures, assist the head of unit and other members of staff in implementing and supporting the communication, documentation activities, administrative functions and internal managerial coordination.

**Tasks include:**

- a) scheduling and confirming medical appointments and communicating messages for medical staff and patients;
- b) compiling, recording and reviewing medical charts, reports, documents and correspondence;
- c) interviewing patients to complete forms, documents and case histories;
- d) completing insurance and other claim forms;
- e) maintaining medical files and records and the technical library;
- f) preparing financial statements and billing procedures;
- g) assisting in the preparation of budgets, financial statements and billing procedures;
- h) drafting contracts and purchasing or taking orders; and
- j) supervising the work of office clerks.

**Examples of the occupations classified here:** [\(refer to index; unit group 3344\)](#)

3344-01	Medical Secretary
3344-02	Medical Office Administrative Assistant
3344-03	Hospital Ward Secretary
3344-04	Patient Care Secretary

## SUB-MAJOR 34 LEGAL ASSOCIATE PROFESSIONALS

**Legal Associate Professionals** perform support functions in courts of law or in law offices, provide services related to such legal matters as insurance contracts, property transfers, granting of loans and other financial transactions or conduct investigations for clients.

### MINOR GROUP 341 LEGAL ASSOCIATE PROFESSIONALS

**Legal Associate Professionals** perform support functions in courts of law or in law offices, provide services related to such legal matters as insurance contracts, property transfers, granting of loans and other financial transactions or conduct investigations for clients.

#### UNIT GROUP 3411 LEGAL AND RELATED ASSOCIATE PROFESSIONALS

**Legal and Related Associate Professionals** perform support functions in courts of law or in law offices, provide services related to such legal matters as insurance contracts, property transfers, granting of loans and other financial transactions or conduct investigations for clients.

**Tasks include:**

- a) preparing, recording and issuing court orders including probation orders, release documentation, sentencing information and summonses;
- b) making the registry files, reviewing draft orders and writing letters to lawyers on the trial dates;
- c) interpreting cases in open court and judge's chamber;
- d) registering / recording in the files the proceedings or decisions of the cases that have been tried;
- e) preparing daily / monthly reports and ensuring and preparing case files before sending them to the judge;
- f) drafting and proofreading, including compiling attendance notes, taking notes at court, proofreading documents, writing letters;
- g) preparing litigation bundles and managing case files;
- h) performing legal research;
- i) liaising with clients (in more senior roles);
- j) taking witness statements;
- k) managing the implementation of rehabilitation programmes, prevention programmes, drug-related law enforcement and tasks as directed by superiors;
- l) performing related tasks; and
- m) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3411](#))

3411-01	Administrative Assistant (Legal), Grade L17
3411-02	Anti-Drug Assistant, Grade S17
3411-03	Bailiff
3411-04	Private Detective

## SUB-MAJOR 35 INFORMATION AND COMMUNICATIONS TECHNICIANS

**Information and Communications Technicians** provide support for the running of computer systems, communications systems and networks and perform technical tasks related to telecommunications, broadcast of image and sound as well as other types of telecommunications signals on land, sea or in aircraft.

### MINOR GROUP 351 INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATION AND USER SUPPORT TECHNICIANS

**Information and Communications Technology Operation and User Support Technicians** provide support for the running of communications systems, computer systems and networks and provide technical assistance to users.

#### UNIT GROUP 3511 INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATION TECHNICIANS

**Information and Communications Technology Operation Technicians** support the day-to-day processing, operation and monitoring of information and communications technology systems, including local and wide area networks (LANs and WANs), and hardware, software and related computer equipment to ensure optimal performance.

**Tasks include:**

- a) performing duties encompassing maintenance of computer systems such as preventive maintenance and maintenance of information technology equipment and maintenance of computing applications and operating systems in an organisation;
- b) operating and overseeing computer peripherals and related equipment;
- c) monitoring systems for equipment failure or errors in performance;
- d) informing the supervisor or maintenance technicians of equipment malfunctions;
- e) retrieving, separating and sorting program output as needed, and sending data to specified users;
- f) loading peripheral equipment, such as printers, with selected materials for operations, or overseeing loading of peripheral equipment by peripheral equipment operators;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3511](#))

3511-01	Computer Technician, Grade FT17
3511-02	Administrative Assistant (Computer Operator), Grade 21
3511-05	Computer Technician
3511-06	Computer Peripheral Equipment Technician

#### UNIT GROUP 3512 INFORMATION AND COMMUNICATIONS TECHNOLOGY USER SUPPORT TECHNICIANS

**Information and Communications Technology User Support Technicians** provide technical assistance to users, either directly or by telephone, e-mail or other electronic means, including diagnosing and resolving issues and problems with software, hardware, computer peripheral equipment, networks, databases and the Internet, and provide guidance and support in the deployment, installation and maintenance of systems.

**Tasks include:**

- a) answering user inquiries regarding software or hardware operation to resolve problems;

- b) entering commands and observing system functioning to verify correct operations;
- c) installing and performing minor repairs to hardware, software or peripheral equipment, following design or installation specifications;
- d) overseeing the daily performance of communications and computer systems;
- e) setting up equipment for employee use, performing or ensuring proper installation of cables, operating systems, or appropriate software;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3512\)](#)

3512-01	Computer Help Desk Technician
3512-02	Personal Computer Support Technician
3512-03	Information Technology Technician
3512-04	Computer Help Desk Operator

#### **UNIT GROUP 3513 COMPUTER NETWORK AND SYSTEMS TECHNICIANS**

**Computer Network and Systems Technicians** establish, operate and maintain network and other data communications systems.

**Tasks include:**

- a) operating, maintaining and troubleshooting network systems;
- b) operating and maintaining data communications systems other than network;
- c) assisting users with network and data communications problems;
- d) identifying areas needing upgraded equipment and software;
- e) installing computer hardware, network software, operating system software and application software;
- f) performing start up and shut down of systems including backup systems and disaster recovery operations;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3513\)](#)

3513-01	Computer Network Technician
3513-02	Network Support Technician

#### **UNIT GROUP 3514 WEB TECHNICIANS**

**Web Technicians** maintain, monitor and support the optimal functioning of Internet and Intranet websites and web server hardware and software.

**Tasks include:**

- a) installing, monitoring and supporting the reliability and usability of Internet and Intranet websites or web server hardware or software;
- b) developing and maintaining documentation, policies and instructions, and recording operational procedures and system logs;
- c) developing, coordinating, implementing and monitoring security measures;
- d) analysing and making recommendations to enhance performance, including upgrading and acquiring new systems;
- e) liaising with and providing guidance to clients and users;
- f) modifying web pages;
- g) performing web server backup and recovery operations;

- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3514\)](#)

3514-01	Website Technician
3514-02	Web Technician

## **MINOR GROUP 352 TELECOMMUNICATIONS AND BROADCASTING TECHNICIANS**

**Telecommunications and Broadcasting Technicians** control technical functioning of equipment to record and edit images and sound and transmit radio and television broadcasts of images and sounds, as well as other types of telecommunications signals on land, sea or in aircraft, perform technical tasks connected with telecommunications engineering research and with the design, manufacture, assembly, construction, operation, maintenance and repair of telecommunications systems.

### **UNIT GROUP 3521 BROADCASTING AND AUDIO-VISUAL TECHNICIANS**

**Broadcasting and Audio-Visual Technicians** control technical functioning of equipment to record and edit images and sound and transmit radio and television broadcasts of images and sounds, as well as other types of telecommunications signals on land, sea or in aircraft.

#### **Tasks include:**

- a) handling the installation of audio-visual equipment, providing amplifier facilities and loud audio-visual equipment;
- b) carrying out post-production work and copying the collection of media materials, and preparing exhibits and maintaining audio-visual equipment;
- c) taking charge of equipment for sound recordings;
- d) taking charge of equipment to edit and mix image and sound recordings to ensure satisfactory quality and to create special image and sound effects;
- e) applying knowledge of principles and practices of image and sound recording and editing in order to identify and solve problems in the course of work;
- f) taking charge of transmitting and broadcast systems and satellite systems for radio and television programmes;
- g) taking charge of radio communications systems, satellite services and multiplex systems on land, sea or in aircraft;
- h) applying knowledge of principles and practices of broadcasting, telecommunications terminals and transmissions systems in order to identify and solve problems;
- i) making repairs to equipment;
- j) performing related tasks; and
- k) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3521\)](#)

3521-01	Audio-Visual Technician, Grade N17
3521-02	Cinematographer
3521-03	Audio-Visual Operator
3521-04	Production Assistant (Media)

## UNIT GROUP 3522 TELECOMMUNICATIONS ENGINEERING TECHNICIANS

**Telecommunications Engineering Technicians** perform technical tasks connected with telecommunications engineering research, as well as with the design, manufacture, assembly, construction, operation, maintenance and repair of telecommunications systems.

### Tasks include:

- a) providing technical assistance connected with research and development of telecommunications equipment, or prototype testing;
- b) studying technical materials such as blueprints and sketches to determine the method of work to be adopted;
- c) preparing detailed estimates of quantities and costs of materials and labour required for the manufacture and installation of telecommunications equipment according to the specifications given;
- d) providing technical supervision of the manufacture, utilisation, maintenance and repair of telecommunications systems to ensure satisfactory performance and compliance with specifications and regulations;
- e) applying technical knowledge of telecommunications engineering principles and practices in order to identify and solve problems arising in the course of their work;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3522](#))

3522-01	Aerospace Engineering Technician (Telecommunications)
3522-02	Engineering Technician (Telecommunications)
3522-03	Communications Technician
3522-04	Telecommunications Technician



## SUB-MAJOR 36 SOCIAL, CULTURAL AND RELATED ASSOCIATE PROFESSIONALS

**Social, Cultural and Related Associate Professionals** perform technical tasks related to social work, religious, sports, artistic, cultural and culinary activities.

### MINOR GROUP 361 SOCIAL AND RELIGIOUS ASSOCIATE PROFESSIONALS

**Social and Religious Associate Professionals** perform technical tasks related to research and the practical application of concepts, theories, principles and operational methods connected with social work and religion.

#### UNIT GROUP 3611 SOCIAL WORK ASSOCIATE PROFESSIONALS

**Social Work Associate Professionals** offer clients guidance and implement social assistance programmes and community service and assist clients in dealing with personal and social problems.

**Tasks include:**

- a) collecting information relevant to clients' needs and advising them on their rights and obligations;
- b) analysing the client's situation and presenting alternative approaches to resolve problems;
- c) planning, evaluating, improving and developing welfare services;
- d) helping to prevent child abuse and domestic violence, and assisting people with physical or mental disabilities to obtain adequate treatment and to improve their ability to interact with society;
- e) assisting people with disabilities or senior citizens to acquire services and to improve their ability to function in society;
- f) compiling case records and preparing reports as required;
- g) offering crisis intervention and emergency protective services;
- h) conducting living skills workshops, substance abuse treatment programmes, behavioural management programmes, youth and community service programmes as well as social service programmes under the supervision of social workers or health care professionals;
- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3611](#))

3611-01	Community Development Assistant, Grade S17
3611-02	Social Research Assistant, Grade N17
3611-03	Social Worker
3611-04	Social Worker, Group Work

#### UNIT GROUP 3612 RELIGIOUS ASSOCIATE PROFESSIONALS

**Religious Associate Professionals** provide support to ministers or to a religious community, undertake religious work, preach and propagate the teachings of a particular religion and endeavour to improve well-being through the power of faith and spiritual advice.

**Tasks include:**

- a) undertaking religious work;
- b) preaching and propagating the teachings of a particular religious faith;
- c) assisting in worship and religious rites;
- d) providing religious education, spiritual guidance and moral support to individuals and communities;

- e) administering and participating in programmes to provide food, clothing and shelter to those in need;
- f) advising communities and individuals on proper behaviour and faith to preserve and improve well-being;
- g) helping to gather materials / books / documents pertaining to the faith;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3612\)](#)

3612-01	Islamic Affairs Assistant, Grade S17
3612-02	Monk
3612-03	Nun
3612-04	Preacher

#### **MINOR GROUP 362 SPORTS, SELF DEFENCE AND FITNESS ASSOCIATE PROFESSIONALS**

**Sports, Self Defence and Fitness Associate Professionals** participate in or conduct public sporting competitions, coach amateur or professional sportspersons to enhance performance, promote participation and standards in sport, organise and officiate at sporting events, and provide instruction, training and supervision for various forms of exercise and other recreational activities.

##### **UNIT GROUP 3621 ATHLETES AND SPORTS PLAYERS**

**Athletes and Sports Players** participate in competitive sporting events. They train and compete, either individually or as part of a team, in their chosen sport.

##### **Tasks include:**

- a) participating in competitive sporting events;
- b) participating in regular practice and training sessions and undertaking private training to maintain the required standard of fitness and skill;
- c) attending sports promotional activities and media interviews;
- d) maintaining a high degree of expertise in a particular sport;
- e) deciding on strategies in consultation with coaches;
- f) assessing other competitors and conditions at venues;
- g) competing in sporting events;
- h) adhering to the rules and regulations associated with a specific sport;
- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3621\)](#)

3621-01	Sportsperson
3621-02	Athlete
3621-03	Boxer
3621-04	Footballer

## UNIT GROUP 3622 SPORTS COACHES, INSTRUCTORS AND OFFICIALS

**Sports Coaches, Instructors and Officials** work with amateur and professional sportspersons to enhance performance, encourage greater participation in sport, and organise and officiate at sporting events according to established rules.

### Tasks include:

- a) identifying the strengths and weaknesses of athletes or teams;
- b) planning and conducting training sessions;
- c) planning and coordinating schedules and programmes;
- d) motivating and preparing athletes or teams for competitive events;
- e) formulating competitive strategies, developing game plans and directing athletes and players during games or athletic events;
- f) analysing and evaluating athletes' or teams' performance and modifying training programmes;
- g) monitoring and analysing technique and performance, and determining how future improvements can be made;
- h) officiating at sporting events or athletic competitions to maintain standards of play and ensuring that game rules and safety regulations are observed;
- i) recording lapsed time and keeping scores during events or competitions;
- j) judging the performance of competitors, awarding of points, imposing penalties for infractions and determining results;
- k) carrying out programmes and activities related to youth and sports in the ministry / state / department / district;
- l) as the marching and physical training instructor, conducting marching and sports activities;
- m) compiling scores and other athletic records;
- n) performing related tasks; and
- o) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3622](#))

3622-01	Youth and Sports Officer, Grade S41
3622-02	Assistant Youth and Sports Officer, Grade S27
3622-06	Sports Official
3622-07	Referee

## UNIT GROUP 3623 FITNESS AND RECREATION INSTRUCTORS AND PROGRAMME LEADERS

**Fitness and Recreation Instructors and Programme Leaders** lead, guide and instruct groups and individuals in recreational, fitness or outdoor adventure activities.

### Tasks include:

- a) planning and carrying out recreational and fitness activities;
- b) monitoring recreational, sports or fitness activities to ensure safety and providing emergency or first aid assistance when required;
- c) evaluating and monitoring clients' abilities and fitness and recommending suitable activities;
- d) demonstrating and teaching body movements, concepts and skills used in fitness routines and recreational activities;
- e) instructing the use of equipment;
- f) explaining and enforcing safety procedures, rules and regulations.
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: [\(refer to index; unit group 3623\)](#)

3623-01	Physical Fitness Instructor
3623-02	Billiard Instructor
3623-03	Chess Instructor
3623-04	Sailing Instructor

#### **MINOR GROUP 363 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS**

**Artistic and Cultural Associate Professionals** combine creative and technical skills with knowledge in taking and processing still photographs; design and decoration of theatre sets, shop displays and the interiors of homes; preparation of objects for display; maintenance of library and gallery collections, record and cataloguing systems; provide support for stage, film and television production; and in other areas of artistic and cultural endeavour.

#### **UNIT GROUP 3631 PHOTOGRAPHERS**

**Photographers** take photographs, operate video cameras and other equipment to record and edit images.

**Tasks include:**

- a) taking photos, editing, preparing captions and sending photographs of formal and informal activities for reference and retention;
- b) making film / audio or soundless video coverage, filming a special programme, providing equipment, maintaining the cleanliness of the studio and darkroom as well as ensuring safety of equipment inside and outside the department;
- c) consulting with clients to determine the objectives of photography assignments;
- d) reviewing the task requirements and choosing the type of camera, film and lighting;
- e) carrying out work in the studio or transporting and installing equipment at assigned locations;
- f) taking photographs for advertising or other commercial, industrial or scientific purposes and illustrating stories and articles in newspapers, magazines, books and other publications;
- g) setting up and operating motion picture cameras, videos, microscopic and other specialised cameras, including those used in aerial photography to record images;
- h) taking charge of equipment to edit and mix images to ensure satisfactory quality and to create special images;
- i) working with digital technology and manipulating resulting images on computer;
- j) applying principles and practices of image and sound recording and editing in order to identify and solve problems arising in the course of their work;
- k) performing related tasks; and
- l) supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: [\(refer to index; unit group 3631\)](#)

3631-01	Photographer, Grade B11
3631-02	Administrative Assistant (Photographer), Grade 21
3631-03	Photographer
3631-04	Commercial Illustration Photographer

## UNIT GROUP 3632 INTERIOR DESIGNERS AND DECORATORS

**Interior Designers and Decorators** plan and design commercial, industrial, public, retail and residential building interiors and design posters and other print materials. They coordinate and participate in construction and decoration.

### Tasks include:

- determining the design by consulting with clients, undertaking research and analysing functional requirements or studying layouts;
- designing industrial and commercial products, including new types and styles of clothing and accessories and harmonising aesthetic considerations with technical and other requirements;
- supervising the production of sample products or designing illustrations, instructing other workers in making models or patterns of products, or instructing finishing or layout artists in assembling artwork for printing;
- creating interior decorating schemes and planning furnishings for houses, public buildings, ships and other places;
- designing and painting backdrops;
- creating and executing artistic effects for use in show windows and other display/promotional areas;
- designing floral arrangements such as wreaths, bouquets and corsages according to customers' preference, purpose, occasion and availability of flowers;
- performing related tasks; and
- supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3632](#))

3632-01	Designer, Grade B11
3632-02	Interior Designer
3632-03	Furniture Designer
3632-04	Poster Designer

## UNIT GROUP 3633 GALLERY, MUSEUM AND LIBRARY ASSOCIATE PROFESSIONALS

**Gallery, Museum and Library Associate Professionals** prepare works of art, specimens and artefacts for collection, and arrange and coordinate gallery displays.

### Tasks include:

- receiving, reviewing and registering archival materials received, registering archival materials requested for research and reference purposes, archival materials returned and ensuring order and preservation of archival materials under their supervision;
- carrying out the repair and conservation work (including task binding) all government records in the various forms of book cover files, maps, plans, manuscripts, letters of agreement, letter, pictures and the like;
- assisting the Assistant Curator to conduct research and gathering museum collections and overseeing the restoration, rehabilitation, preservation and cleaning of museum collections for display;
- drawing plans of the building, renovation of building, office or laboratory, exhibition hall layout plan, display case, mapping for exploration activities, etc;
- providing lending services at the library, including interlibrary loan;
- mounting and preparing objects for display;
- assisting librarians in the acquisition, preparation and organisation of the information record system;
- describing, analysing and preserving valuable objects and collections for the benefit of researchers and the public;

- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3633\)](#)

3633-01	Archive Assistant, Grade S17
3633-02	Conservation Assistant, Grade S17
3633-05	Gallery Technician
3633-06	Library Technician

#### **UNIT GROUP 3634 CULTURAL ASSOCIATE PROFESSIONALS**

**Cultural Associate Professionals** provide support for stage and in other areas of artistic and cultural endeavour.

**Tasks include:**

- a) helping musicians compose songs, play musical instruments for training and performances and being a member of the orchestra;
- b) giving performances including dance, singing and acting;
- c) assisting directors and performers with the staging of theatre, motion picture, television or commercial productions;
- d) performing related tasks; and
- e) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3634\)](#)

3634-01	Musician, Grade B17
3634-02	Cultural Artist, Grade B17

#### **UNIT GROUP 3639 ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED**

This unit group includes Artistic and Cultural Associate Professionals Not Elsewhere Classified in Minor Group 363: Artistic and Cultural Associate Professionals.

**Tasks include:**

- a) assisting the director and performers in theatre, motion picture, television or commercial production;
- b) carrying out related tasks; and
- c) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3639\)](#)

3639-01	Publication Assistant, Grade N17
3639-02	Programme Producer, Grade B17
3639-04	Special Effects Technician
3639-05	Lighting Technician



## MINOR GROUP 364 CULINARY ASSOCIATE PROFESSIONALS

**Culinary Associate Professionals** combine creative and technical skills in the creation of menus, preparation and presentation of food.

### UNIT GROUP 3641 **CHEFS**

**Chefs** plan menus, cook and create dishes in hotels, restaurants and other eating places, on board ships, on passenger trains and in private households.

**Tasks include:**

- a) planning and developing recipes and menus, estimating food and labour costs, and ordering food supplies;
- b) monitoring quality of dishes at all stages of preparation and presentation;
- c) discussing food preparation issues with managers, dieticians and kitchen staff;
- d) instructing cooks and other workers in the preparation, cooking, garnishing and presentation of food;
- e) supervising preparation and cooking of food, and instructing cooks as required;
- f) preparing special dishes and inventing recipes;
- g) testing cooked food by tasting or smelling it;
- h) requisitioning or purchasing food supplies and kitchen equipment as necessary and checking them for quality and quantity;
- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 3641](#))

3641-01	Assistant Food Preparation Officer, Grade C27
3641-02	Chef de Cuisine
3641-03	Executive Chef
3641-04	Sous Chef

## SUB-MAJOR 37 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS

**Regulatory Government Associate Professionals** assist regulatory body professionals in administering, enforcing or applying relevant government rules and regulations relating to national borders, taxes, social benefits, and certify or examine applications for licences or authorisation in connection with travel, exports and imports of goods, establishment of businesses, erection of buildings and other activities subject to government regulations.

### MINOR GROUP 371 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS

**Regulatory Government Associate Professionals** assist regulatory body professionals in administering, enforcing or applying relevant government rules and regulations relating to national borders, taxes, social benefits, and certify or examine applications for licences or authorisation in connection with travel, exports and imports of goods, establishment of businesses, erection of buildings and other activities subject to government regulations.

#### UNIT GROUP 3711 CUSTOMS AND BORDER INSPECTOR ASSOCIATE PROFESSIONALS

**Customs and Border Inspector Associate Professionals** assist in checking persons and vehicles crossing national borders to administer and enforce relevant government regulations and laws.

**Tasks include:**

- a) examining immigration applications, visas and passports and interviewing persons to determine eligibility for admission, residence and travel in the country;
- b) detaining persons found to be in violation of customs or immigration laws and arranging for legal action such as deportation;
- c) searching and seizing contraband or undeclared merchandise and vehicles, aircraft or boats containing such as merchandise;
- d) interpreting and explaining laws and regulations to travellers, prospective immigrants, shippers and manufacturers;
- e) collecting sample merchandise for examination, appraisal or testing; and
- f) inspecting cargo, baggage and personal articles entering or leaving the country.

**Examples of the occupations classified here:** ([refer to index; unit group 3711](#))

3711-01	Customs Inspector
3711-02	Customs and Border Inspector
3711-03	Border Inspector
3711-04	Passport Checking Officer

#### UNIT GROUP 3712 TAXATION AND EXCISE OFFICIAL ASSOCIATE PROFESSIONALS

**Taxation and Excise Official Associate Professionals** assist in examining tax returns, bills of sale and other documents to determine the type and amount of taxes, duties and other types of fees to be paid by individuals or businesses.

**Tasks include:**

- a) applying tax legislation to companies, partnerships, organisations and individuals;
- b) examining accounts and researching background of materials;
- c) investigating fraud;
- d) giving expert advice on taxation matters to companies, partnerships, organisations and individuals;
- e) negotiating tax settlements with taxpayers and/or accountants;
- f) reviewing the finances of a business to find out exactly how it operates;
- g) visiting business premises and meeting people face to face during investigations;

- h) reviewing in detail aspects of the business accounts to ensure that the tax law has been applied correctly;
- i) presenting a case in correspondence, and in person, with taxpayers or their professional advisers, accountants or lawyers;
- j) performing related tasks; and
- k) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3712)*

3712-01	Administrative Assistant (Appraiser), Grade 21
3712-02	Tax Estimator Assistant
3712-03	Excise Assistant
3712-04	Tax Assistant

#### **UNIT GROUP 3713 GOVERNMENT SOCIAL BENEFIT OFFICIAL ASSOCIATE PROFESSIONALS**

**Government Social Benefit Official Associate Professionals** assist in examining applications for government, financial or service programmes to determine eligibility and amount of benefit or appropriate services.

**Tasks include:**

- a) assisting in enforcing related procedure of regulations and laws on social organisations;
- b) providing social security protection through social insurance for the individual, family and society for their human rights and safety;
- c) performing related tasks; and
- d) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 3713)*

3713-01	Social Benefit Assistant
3713-02	Social Security Claims Assistant
3713-03	Pension Assistant

#### **UNIT GROUP 3714 GOVERNMENT LICENSING OFFICIAL ASSOCIATE PROFESSIONALS**

**Government Licensing Official Associate Professionals** examine applications for licences to export or import goods, set up businesses, build houses or other structures, or to obtain passports, determine eligibility of applications for issuing licences or passports, and identify specific conditions or restrictions to be attached to licences issued.

**Tasks include:**

- a) interpreting and explaining related procedures, regulations and laws;
- b) advising individuals on the law and government regulations on the types of licences required and the conditions attached to the licences, and the rights and obligations of the public;
- c) examining applications and related documents and determining whether a licence shall be granted and the conditions to be attached;
- d) examining applications and approving the issue of passports;
- e) carrying out administrative tasks related to the application process, document activities, evaluation and determination, and preparation of correspondence to inform applicants of licensing decisions;
- f) carrying out the necessary tests on licence applicants; and
- g) enforcing procedures, regulations and laws.

**Examples of the occupations classified here:** [\(refer to index; unit group 3714\)](#)

3714-01	Enforcement Assistant, Grade N17
3714-02	Executive Assistant (Enforcement), Grade L11
3714-03	Licensing Inspector
3714-04	Licensing Assistant

#### **UNIT GROUP 3715 POLICE OFFICERS**

**Police Officers** investigate, prevent and solve criminal cases.

**Tasks include:**

- a) performing police duties including patrolling to prevent crime and gathering security intelligence, apprehending, guarding, escorting offenders, controlling traffic, patrolling the seas and air to protect the nation's waters in order for the people and nation to enjoy peace and tranquillity;
- b) investigating alleged or suspected criminal violation of federal, state or local laws to determine if evidence is sufficient to recommend prosecution;
- c) preparing charges, responses to charges, or information for court cases according to formal procedures;
- d) taking notes, marking and photographing location of objects found, such as footprints, tyre tracks, bullets and bloodstains, and taking measurements of the scene;
- e) restricting or roping off the crime scene and checking the perimeter to ensure the entire area is secured; and
- f) seeking medical assistance for injured individuals and reminding medical personnel to take statements from them.

**Examples of the occupations classified here:** [\(refer to index; unit group 3715\)](#)

3715-01	Low-ranking officer and Constable, Grade YA1
3715-02	Police Inspector
3715-03	Police Detective
3715-04	Police Officer

#### **UNIT GROUP 3716 CIVIL DEFENCE ASSOCIATE PROFESSIONALS**

**Civil Defence Associate Professionals** supervise and investigate civil cases by enforcing laws procedures and regulations.

**Tasks include:**

- a) carrying out intelligence tasks in assisting the Malaysian Armed Forces;
- b) enforcing procedures of related regulations and laws;
- c) investigating fraud; and
- d) supervising, scheduling and monitoring the tasks of other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 3716\)](#)

3716-01	Civil Defence Assistant, Grade KP17
3716-02	Civilian Liaison Officer, Grade KP19
3716-03	Civil Service Inspector
3716-04	Government Administration Inspector

**UNIT GROUP 3719 REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED**

This unit group covers Regulatory Government Associate Professionals Not Elsewhere Classified in Minor Group 371: Regulatory Government Associate Professionals.

**Tasks include:**

- a) interpreting and explaining related procedures regulation and laws;
- b) preventing and enforcing abuse of power;
- c) investigating fraud;
- d) enforcing procedures, regulations and laws;
- e) registering job seekers, advising / counselling about job opportunities, renewing registration, providing data on job vacancies in the register of employers as well as conducting progress visits to newly approved employers / enterprises;
- f) processing applications for Identity Card, Birth Certificate, Death Certificate, Adoption Certificate, Citizenship Certificate, Marriage and Divorce Certificates and Certificate of Amendment of Details and other related tasks; and
- g) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 3719\)](#)

3719-01	Industrial Relations Assistant, Grade S17
3719-02	Registration Assistant, Grade KP17
3719-04	Price Inspector
3719-05	Fire and Safety Inspector





# 4

## CLERICAL SUPPORT WORKERS



## **41 OFFICE CLERKS**

### **411 GENERAL OFFICE CLERKS**

4111 General Office Clerks

### **412 SECRETARIES (GENERAL)**

4121 Secretaries (General)

### **413 KEYBOARD OPERATORS**

4131 Typist and Word Processor Operators

4132 Data Entry Clerks

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## **42 CUSTOMER SERVICES CLERKS**

### **421 TELLERS, MONEY COLLECTORS AND RELATED CLERKS**

4211 Bank Tellers and Related Clerks

4212 Bookmakers, Croupiers and Related Gaming Workers

4213 Pawnbrokers and Money-Lenders

4214 Debt and Rent Collectors and Related Workers

### **422 CLIENT INFORMATION WORKERS**

4221 Travel Consultants and Related Clerks

4222 Contact/ Call Centre Information Clerks

4223 Telephone Switchboard Operators

4224 Receptionists

4225 Enquiry Clerks

4226 Survey and Market Research Interviewers

4229 Client Information Workers Not Elsewhere Classified





## **43 NUMERICAL AND MATERIAL RECORDING CLERKS**

### **431 NUMERICAL CLERKS**

- 4311 Accounting and Book-keeping Clerks
- 4312 Statistical, Finance and Insurance Clerks
- 4313 Payroll Clerks

### **432 MATERIAL - RECORDING AND TRANSPORT CLERKS**

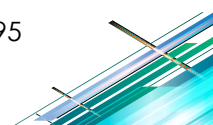
- 4321 Stock Clerks
- 4322 Production Clerks
- 4323 Transport Clerks

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## **44 OTHER CLERICAL SUPPORT WORKERS**

### **441 OTHER CLERICAL SUPPORT WORKERS**

- 4411 Library Clerks
- 4412 Mail Carriers and Sorting Clerks
- 4413 Coding, Proof-Reading and Related Clerks
- 4414 Scribes and Related Workers
- 4415 Filing and Copying Clerks
- 4416 Personnel Clerks
- 4419 Clerical Support Workers Not Elsewhere Classified



SUB-MAJOR GROUP

41

42

43

44

- 41. OFFICE CLERKS
- 42. CUSTOMER SERVICES CLERKS
- 43. NUMERICAL AND MATERIAL RECORDING CLERKS
- 44. OTHER CLERICAL SUPPORT WORKERS

# Major Group 4 CLERICAL SUPPORT WORKERS

## Description

Record, organise, store and retrieve related information and perform clerical duties especially in connection with administrative operations, handling of money, travel arrangements and requests for information and appointments

## Skill Level

Most occupations in this major group require skills at the second level

### SUB-MAJOR 41 OFFICE CLERKS

**Office Clerks** record, organise, store and retrieve related information and perform a range of clerical and administrative tasks according to established procedures.

#### MINOR GROUP 411 GENERAL OFFICE CLERKS

**General Office Clerks** perform a range of clerical and administrative tasks according to established procedures.

#### UNIT GROUP 4111 GENERAL OFFICE CLERKS

**General Office Clerks** perform a range of clerical and administrative tasks according to established procedures.

#### Tasks include:

- a) carrying out clerical duties including maintenance of files / documents, calculations, preparation of monthly reports and statistical reports;
- b) recording, preparing, sorting, classifying and filing information;
- c) sorting, opening and sending mail;
- d) photocopying and faxing documents;
- e) preparing reports of a routine nature;
- f) recording issue of equipment to staff;
- g) responding to telephone or electronic enquiries or forwarding them to appropriate persons;
- h) assisting in customer service tasks;
- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4111](#))

4111-01	Administrative Assistant(Clerical/ Operation), Grade N17
4111-02	Land Administrative Assistant, Grade N17
4111-09	General Office Clerk
4111-10	Office Clerk

## MINOR GROUP 412 SECRETARIES (GENERAL)

**Secretaries (General)** use typewriters, personal computers or other word-processing equipment to transcribe correspondence and other documents, check and format documents prepared by other staff, deal with incoming and outgoing mail, screen requests for meetings or appointments, and perform a variety of administrative support tasks.

### UNIT GROUP 4121 SECRETARIES (GENERAL)

**Secretaries (General)** use typewriters, personal computers or other word-processing equipment to transcribe correspondence and other documents, check and format documents prepared by other staff, deal with incoming and outgoing mail, screen requests for meetings or appointments, and perform a variety of administrative support tasks.

**Tasks include:**

- a) checking, formatting and transcribing correspondence, minutes and reports from dictation, electronic documents or written drafts to conform to office standards using the typewriter or other word processing equipment;
- b) using various computer software packages including spreadsheets to provide administrative support;
- c) dealing with incoming or outgoing mail;
- d) checking, recording and distributing mail, correspondence and documents;
- e) screening requests for meetings or appointments and helping to organise meetings;
- f) screening and recording leave and other staff members' entitlements;
- g) organising and supervising filing systems;
- h) dealing with routine correspondence;
- i) taking shorthand, typing and managing file movement;
- j) performing related tasks; and
- k) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4121](#))

4121-01	Office Secretary, Grade N27
4121-02	Office Secretarial Assistant, Grade N17
4121-06	Secretarial Administrative Assistant
4121-07	Administrative Assistant (Secretarial)

## MINOR GROUP 413 KEYBOARD OPERATORS

**Keyboard Operators** input and process text and data, and prepare, edit and generate documents for storage, process, publication and transmission.

### UNIT GROUP 4131 TYPISTS AND WORD PROCESSOR OPERATORS

**Typists and Word Processor Operators** type, edit and print using a typewriter, personal computer or other word processor, and record oral or written matter in shorthand.

**Tasks include:**

- a) typing written material from rough drafts, corrected copies, voice recordings or shorthand using a computer, word processor or typewriter;
- b) checking completed work to ensure correct spelling, grammar, punctuation and formatting;
- c) gathering and arranging the material to be typed following instructions;
- d) filing and storing completed documents on computer hard drive or disk, or maintaining a computer filing system to store, retrieve or update documents;
- e) taking dictation and recording other matters in shorthand;



- f) photocopying and answering telephone calls or receiving clients;
- g) transcribing information recorded in shorthand and on sound recording equipment;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** *(refer to index; unit group 4131)*

4131-01	Typist
4131-02	Stenographer
4131-03	Statistical Typist
4131-04	Shorthand Typist

#### UNIT GROUP 4132 DATA ENTRY CLERKS

**Data Entry Clerks** enter codes, statistical, financial and other numerical data into electronic equipment, computerised databases, spreadsheets or other data repositories using a keyboard, mouse or optical scanner, or other data entry tools. They enter data into mechanical and electronic devices to perform mathematical calculations.

**Tasks include:**

- a) receiving and registering invoices, forms, records and other documents for data capture;
- b) entering numerical and other data from source material into storage and processing devices;
- c) checking, correcting and updating entered data, if needed;
- d) performing bookkeeping and operating calculating machine;
- e) establishing/storing fingerprint data and files and preparing and typing correspondence relating to fingerprints received;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** *(refer to index; unit group 4132)*

4132-01	Fingerprint Examiner, Grade N17
4132-02	Index Clerk
4132-03	Records Clerk
4132-04	Data Input Clerk

## SUB-MAJOR 42 CUSTOMER SERVICES CLERKS

**Customer Services Clerks** deal with clients in money-handling operations, travel arrangements, requests for information, making appointments and operating telephone switchboards, and interviews for surveys or to complete applications for eligibility for services.

### MINOR GROUP 421 TELLERS, MONEY COLLECTORS AND RELATED CLERKS

**Tellers, Money Collectors and Related Clerks** perform money-handling operations in establishments related with banking, postal services, betting or gambling, pawning and debt-collecting.

#### UNIT GROUP 4211 **BANK TELLERS AND RELATED CLERKS**

**Bank Tellers and Related Clerks** deal directly with clients of banks or post offices in matters related to receiving, changing and paying out money, or providing mail services.

**Tasks include:**

- a) processing customer cash deposits and withdrawals, cheques, transfers, bills, credit card payments, money orders, certified cheques and other related banking transactions;
- b) paying bills and making money transfers on clients' behalf;
- c) crediting and debiting clients' accounts;
- d) exchanging currency as requested by clients;
- e) making records of all transactions and reconciling them with the cash balance;
- f) receiving mail, selling postage stamps and conducting other post office counter business such as bill payments, money transfers and related business;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4211](#))

4211-01	Postal Clerk
4211-02	Bank Teller
4211-03	Cash Counter Clerk
4211-04	Money Changer

#### UNIT GROUP 4212 **BOOKMAKERS, CROUPIERS AND RELATED GAMING WORKERS**

**Bookmakers, Croupiers and Related Gaming Workers** run the games, deal cards, collect bets, pay winners of bets, gambling, games and the like.

**Tasks include:**

- a) determining risks to decide odds and to hedge or refuse bets;
- b) preparing and issuing lists of approximate odds;
- c) dealing cards or slips, throwing dice or spinning the roulette wheel;
- d) explaining and interpreting the operating rules of a gambling establishment;
- e) announcing winning numbers, paying winners and collecting payments from losers;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4212](#))

4212-01	Betting Counter Clerk
4212-02	Bookmaker's Clerk
4212-03	Croupier
4212-04	Casino Clerk

#### UNIT GROUP 4213 PAWNBROKERS AND MONEY-LENDERS

**Pawnbrokers and Money-Lenders** lend money against articles deposited as pledges, or against property or other security.

**Tasks include:**

- a) evaluating articles offered as pledges, calculating interest and lending money;
- b) returning articles when the loan is paid or, in the event of non-payment, selling pledged articles;
- c) lending money as personal loan against future revenue and other similar undertakings;
- d) making independent investigations into creditors' financial standing to determine risk in giving loan;
- e) collecting repayments in accordance with agreed terms;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4213](#))

4213-01	Pawnbroker
4213-02	Money-Lender

#### UNIT GROUP 4214 DEBT AND RENT COLLECTORS AND RELATED WORKERS

**Debt and Rent Collectors and Related Workers** collect rent, payments on overdue accounts and bad cheques, and collect donations for charity.

**Tasks include:**

- a) communicating with customers via telephone or letter to collect money or arrange payment at a later date;
- b) finding the address of clients and calling on them to collect debts;
- c) recording the amount of money collected;
- d) recommending legal action or initiating seizure of merchandise if payment is not obtained;
- e) asking for and collecting donations;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4214](#))

4214-01	Payment Collector
4214-02	Bill Collector
4214-03	Charity Collector
4214-04	Debt Collector

## MINOR GROUP 422 CLIENT INFORMATION WORKERS

**Client Information Workers** provide or obtain information directly from customers via telephone or electronic means such as e-mail related to making travel arrangements, describing the products or services of the organisation, registering staying guests, greeting visitors, making appointments, connecting telephone calls and interviewing respondents in a survey.

### UNIT GROUP 4221 TRAVEL CONSULTANTS AND RELATED CLERKS

**Travel Consultants and Related Clerks** supply information, arrange travel itineraries, make travel and accommodation reservations and organise group tours.

**Tasks include:**

- a) obtaining information about the cost and convenience of different types of transport and accommodation, ascertaining customers' requirements and advising them on travel arrangements;
- b) preparing itineraries;
- c) making and confirming reservations;
- d) issuing tickets and vouchers;
- e) helping customers in obtaining the necessary travel documents such as visas;
- f) preparing bills and receiving payments;
- g) organising group tours;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** (*refer to index; unit group 4221*)

4221-01	Travel Consultant
4221-02	Travel Coordinator
4221-03	Travel Agency Clerk
4221-04	Booking Clerk

### UNIT GROUP 4222 CONTACT/ CALL CENTRE INFORMATION CLERKS

**Contact/ Call Centre Information Clerks** provide advice and information to clients, respond to clients' queries regarding an organisation's goods, services or policies and process financial transactions via telephone or electronic communications media such as e-mail. They are located in premises that may be far from clients.

**Tasks include:**

- a) taking charge of incoming calls and messages from clients either responding to queries, handling calls about services or sorting complaints;
- b) issuing invoices or handling payments, if necessary;
- c) sending letters, information sheets and other documents to clients;
- d) advising clients of additional products or services;
- e) dealing with telephone requests for information or appointments;
- f) directing clients or patients to the appropriate location or person;
- g) taking any form of complaint or feedback from customers which is related to organisational operation and services;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** (*refer to index; unit group 4222*)

4222-01	Information Assistant, Grade S17
4222-02	Appointment Clerk
4222-03	Customer Service Supervisor
4222-04	Call Centre Clerk

## UNIT GROUP 4223 TELEPHONE SWITCHBOARD OPERATORS

**Telephone Switchboard Operators** operate telephone switchboards and consoles to establish telephone connections, receive caller inquiries and service problem reports, and record and deliver messages to staff or clients.

### Tasks include:

- a) operating switchboards and consoles to connect, hold, transfer and disconnect telephone calls;
- b) connecting outgoing calls;
- c) dealing with telephone inquiries and recording messages;
- d) forwarding messages to staff or clients;
- e) investigating operating system problems and informing about repair services;
- f) receiving and connecting incoming and outgoing calls of all staff, making reports on damages and listing trunk calls made by staff;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4223](#))

4223-01	Telecommunications Service Operator
4223-02	Private Branch Exchange Telephone Operator
4223-03	Telephone Exchange Telephone Operator
4223-04	Telephonist

## UNIT GROUP 4224 RECEPTIONISTS

**Receptionists** receive and welcome visitors, clients, guests or patients and respond to queries and requests including arranging appointments as well as provide information on hotel or organisational services.

### Tasks include:

- a) receiving and welcoming visitors, guests, clients or patients;
- b) making appointments for clients or patients;
- c) handling telephone requests for information or appointments;
- d) compiling and checking guest accounts for changes using a computerised or manual system;
- e) receiving and forwarding messages in person or by telephone or telephone switchboard;
- f) maintaining an inventory of rooms available for occupancy, handling reservations and assigning rooms;
- g) registering new guests, assigning rooms, verifying customer credit and handing over room keys;
- h) providing information about facilities available and making room reservations;
- i) responding to guests' requests for housekeeping and maintenance services as well as complaints;
- j) reviewing statements of charges to departing guests and receiving payment;
- k) supplying information pamphlets, brochures or forms;
- l) performing related tasks; and
- m) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4224](#))

4224-01	Receptionist
4224-02	Medical Receptionist
4224-03	Dental Receptionist
4224-04	Telephone Receptionist

## UNIT GROUP 4225 ENQUIRY CLERKS

**Enquiry Clerks** respond to personal, written, electronic mail and telephone queries and complaints about the organisation's goods, services and policies, provide information and refer people to other sources. They are assigned to locations which place them in direct contact with clients.

### Tasks include:

- a) handling telephone calls efficiently;
- b) providing information about the services offered by the agency, and assisting customers / guests in settling issues arising;
- c) recording and tracking complaints until conclusion of the matter and notifying customers / guests from time to time of the progress in settling their complaints;
- d) answering queries about services and policies and providing information facilities available, location, price and related issues;
- e) receiving, attending to and recording information about queries and complaints;
- f) referring complex queries to team leaders or expert advisers;
- g) issuing relevant forms, information kits and brochures to interested parties;
- h) attending to counter duties and general queries;
- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4225](#))

4225-01	Administrative Assistant (Customer Services), Grade 21
4225-02	Customer Service Officer, Grade N17
4225-03	Customer-Complaints Clerk
4225-04	Counter Enquiries Clerk

## UNIT GROUP 4226 SURVEY AND MARKET RESEARCH INTERVIEWERS

**Survey and Market Research Interviewers** interview people and record their responses to survey and market research questions on a range of topics.

### Tasks include:

- a) contacting individuals by telephone or in person and explaining the purpose of the interview;
- b) interviewing the public for opinions on topics such as public or consumer issues;
- c) asking questions in accordance with the guideline on questionnaires and surveys;
- d) recording responses on paper or entering responses directly into a computer database;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4226](#))

4226-01	Market Research Interviewer
4226-02	Public Opinion Interviewer
4226-03	Survey Interviewer



#### UNIT GROUP 4229 CLIENT INFORMATION WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Client Information Workers Not Elsewhere Classified in Minor Group 422: Client Information Workers

**Tasks include:**

- a) interviewing patients to obtain and process information required to provide hospital services;
- b) interviewing applicants for public assistance to gather information related to their application;
- c) verifying the accuracy of information provided;
- d) initiating procedures to grant, modify, deny or terminate assistance;
- e) providing information and answering questions concerning benefits and claim procedures;
- f) referring patients or applicants to other organisations if they are ineligible for services;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4229](#))

4229-01	Hospital Admissions Clerk
4229-02	Eligibility Interviewer
4229-03	Eligibility Specialist

## SUB-MAJOR 43 **NUMERICAL AND MATERIAL RECORDING CLERKS**

**Numerical and Material Recording Clerks** receive, compile and compute accounting, bookkeeping, statistical, financial and other numerical data, and take charge of cash transactions incidental to business matters. Some occupations classified here keep records of goods produced, purchased, stocked, dispatched, and of materials needed at specified production dates, or keep records of operational aspects and coordinate the timing of passenger and freight transport.

### MINOR GROUP 431 **NUMERICAL CLERKS**

**Numerical Clerks** receive, compile and compute accounting, bookkeeping, statistical, financial and other numerical data, and take charge of cash transactions incidental to business matters.

#### UNIT GROUP 4311 **ACCOUNTING AND BOOK-KEEPING CLERKS**

**Accounting and Book-Keeping Clerks** compute, classify and record numerical data to keep complete financial records. They perform any combination of routine calculating, notification and verifying duties to obtain primary financial data for use in management of accounting records.

**Tasks include:**

- a) checking figures, notification and documents for correct information, mathematical accuracy and proper codes;
- b) operating computers programmed with accounting software to record, store, and analyse information;
- c) classifying, recording and summarising numerical and financial data to compile and keep financial records using journals and ledgers or computers;
- d) calculating, preparing and issuing bills, invoices, account statements and other financial statements according to established procedures;
- e) compiling statistical, financial, accounting or audit reports and tables pertaining to such matters as cash receipts, expenditures, payable and receivable accounts, and profits and losses;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** *(refer to index; unit group 4311)*

4311-01	Administrative Assistant (Accounting), Grade 21
4311-02	Executive Assistant (Accounting), Grade 3
4311-03	Ledger Clerk
4311-04	Book-Keeping Machine Clerk

#### UNIT GROUP 4312 **STATISTICAL, FINANCE AND INSURANCE CLERKS**

**Statistical, Finance and Insurance Clerks** obtain, compile and compute statistical or actuarial data or perform clerical tasks related to the transactions of insurance, bank and other financial establishments.

**Tasks include:**

- a) obtaining and compiling statistical or actuarial data based on routine or special sources of information;
- b) preparing and updating the annual budget;
- c) managing and controlling allocation;
- d) maintaining records and prepare expenditure reports;

- e) calculating totals, averages, percentages and other details and presenting them in tabular form as required;
- f) preparing financial documents and calculating interest or brokerage charges and stamp duties payable;
- g) maintaining records of bonds, shares and other securities bought or sold on behalf of clients or the employer;
- h) preparing samples, questionnaires, collecting data and preparing the census report;
- i) performing related tasks; and
- j) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** [\(refer to index; unit group 4312\)](#)

4312-01	Administrative Assistant (Finance), Grade W17
4312-02	Executive Assistant (Finance), Grade 3
4312-03	Statistical Clerk
4312-04	Social and Economic Data Enumerator

#### UNIT GROUPS 4313 PAYROLL CLERKS

**Payroll Clerks** collect, verify and process payroll information and compute wages and benefit eligibility for employees in a department, company or other establishment.

**Tasks include:**

- a) managing records of employee attendance, leave and overtime to calculate wages and benefit eligibility using manual or computerised systems;
- b) preparing and verifying statements of earnings of employees, indicating gross and net salaries and deductions such as taxes, union dues, garnishments and insurance and pension plans;
- c) preparing employee payments and benefit payments by cheque or electronic transfer;
- d) reviewing time sheets, work charts, wage computation and other information to detect and reconcile payroll discrepancies;
- e) verifying attendance, hours worked, and pay adjustments, and entering information into designated records;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** [\(refer to index; unit group 4313\)](#)

4313-01	Payroll Clerk
4313-02	Wages Clerk
4313-03	Paymaster
4313-04	Payroll Processor

## MINOR GROUP 432 MATERIAL-RECORDING AND TRANSPORT CLERKS

**Material-Recording and Transport Clerks** keep records of goods produced, purchased, stocked, dispatched and of materials needed at specified production dates, or keep records of operational aspects and coordinate the timing of passenger and freight transport.

### UNIT GROUP 4321 STOCK CLERKS

**Stock Clerks** maintain records of goods produced and production materials received, weighed, issued, dispatched or kept in stock.

**Tasks include:**

- a) arranging and controlling receipt and dispatch of goods and keeping relevant records;
- b) maintaining stock records, verifying issue of goods, estimating needs and making requisitions for new stocks;
- c) receiving, storing and issuing tools, spare parts or various equipment and maintaining relevant records;
- d) weighing goods received, issued, produced or dispatched and maintaining relevant records;
- e) maintaining an inventory of furniture and other items received for storage;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4321](#))

4321-01	Raw Material Clerk
4321-02	Supply Clerk
4321-03	Warehouse Clerk
4321-04	Receiving Clerk

### UNIT GROUP 4322 PRODUCTION CLERKS

**Production Clerks** compute and ensure goods/operations are available on specified dates, and prepare and check production operation schedules.

**Tasks include:**

- a) examining customers' orders for goods and services;
- b) computing quantities, qualities and types of materials required for production;
- c) preparing production schedules, ensuring materials are available when needed and keeping related records;
- d) preparing or assisting in preparing production schedules based on customers' orders and production capacity;
- e) verifying stocks, arranging deliveries and investigating delays;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4322](#))

4322-01	Clerk, Production
4322-02	Clerk, Production Control
4322-03	Clerk, Operation
4322-04	Clerk, Plantation

## UNIT GROUP 4323 TRANSPORT CLERKS

**Transport Clerks** keep records of operational aspects and coordinate the timing of rail, road, air and waterborne passenger and freight transport, and prepare reports for the management.

**Tasks include:**

- a) keeping record of operational aspects and coordinating the timing of passenger and freight transport;
- b) directing train routes within a division or zone of a railway system and keeping related records;
- c) directing, controlling and keeping records of freight handling at the rail yard;
- d) coordinating and keeping records of operational activities concerning road transport such as allocation and scheduling of vehicles and drivers, loading and unloading of vehicles and storage of goods in transit;
- e) coordinating and keeping records of operational activities concerning air and water transport of passengers and freight such as passenger lists and freight manifests;
- f) preparing reports for the management;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** [\(refer to index; unit group 4323\)](#)

4323-01	Logistics Clerk
4323-02	Transport Clerk
4323-03	Claims Clerk, Transport
4323-04	Control Clerk, Train

## SUB-MAJOR 44 **OTHER CLERICAL SUPPORT WORKERS**

**Other Clerical Support Workers** perform clerical duties in newspaper companies, courts, libraries and post offices, file documents, prepare information for processing, maintain personnel records, check material to ensure consistency with original source and write on behalf of illiterate persons.

### MINOR GROUP 441 **OTHER CLERICAL SUPPORT WORKERS**

**Other Clerical Support Workers** perform clerical duties in newspaper companies, courts, libraries and post offices, file documents, prepare information for processing, check material to ensure consistency with original source, maintain personnel records and write on behalf of illiterate persons.

#### UNIT GROUP 4411 **LIBRARY CLERKS**

**Library Clerks** issue and receive library materials, sort and organise books on shelves and provide general library information to users.

**Tasks include:**

- a) issuing and receiving library books and other materials;
- b) reshelving books and other library materials;
- c) performing clerical activities such as manual and electronic filing, word processing and typing;
- d) maintaining journal subscriptions;
- e) assisting library users in accessing basic library materials and making inter-library loans;
- f) maintaining library records related to the acquisition, issue and return of books and other publications;
- g) performing related tasks; and
- h) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4411](#))

4411-01	Administrative Assistant (Library), Grade 21
4411-02	Executive Assistant (Library), Grade 3
4411-03	Library Clerk
4411-04	Library File Compiler

#### UNIT GROUP 4412 **MAIL CARRIERS AND SORTING CLERKS**

**Mail Carriers and Sorting Clerks** sort, record, deliver and perform other duties related to mail services from post offices or related organisations as well as from within an establishment.

**Tasks include:**

- a) performing mail-handling duties in post offices;
- b) sorting and delivering mail to private houses and elsewhere;
- c) sorting and keeping simple records of incoming and outgoing correspondence and dispatching outgoing mail in various establishments;
- d) serving summonses on the defendant and obtaining recipient's signature;
- e) performing related tasks; and
- f) supervising, scheduling and monitoring the tasks of other workers

**Example of the occupations classified here:** ([refer to index; unit group 4412](#))

4412-01	Postman/ woman
4412-02	Clerk, Mail Dispatch
4412-03	Assistant, Mail Dispatch
4412-04	Process Server



#### UNIT GROUP 4413 CODING, PROOF-READING AND RELATED CLERKS

**Coding, Proof-Reading and Related Clerks** convert information into codes, verify and correct proofs and perform various clerical duties.

**Tasks include:**

- a) converting information into codes and classifying information by codes for data processing purposes;
- b) comparing proofs of texts and related material prepared for printing with original material, correcting errors and marking texts for printer in accordance with the requirements set;
- c) sorting forms and marking them with identification numbers;
- d) sorting documents for filing or to collate sets of pages;
- e) internal proof-reading for printing, supervising printing work, compilation and binding;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4413](#))

4413-01	Proof-Reader Clerk
4413-02	Coding Clerk, Data Processing
4413-03	Coding Clerk, Statistics
4413-04	Publication Clerk

#### UNIT GROUP 4414 SCRIBES AND RELATED WORKERS

**Scribes and Related Workers** write letters and complete forms on behalf of illiterate persons.

**Tasks include:**

- a) reading letters and other written matter to illiterate persons and providing the necessary interpretation and information;
- b) writing letters and completing forms on behalf of illiterate persons;
- c) offering advice to individuals and interpreting and helping with the completion of government and other official forms;
- d) performing related tasks; and
- e) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** ([refer to index; unit group 4414](#))

4414-01	Petition Writer
4414-02	Public Writer
4414-03	Scribe

#### UNIT GROUP 4415 FILING AND COPYING CLERKS

**Filing and Copying Clerks** file correspondence, cards, invoices, receipts and other records in alphabetical or numerical order or according to the filing system used. They locate and remove material from file when requested and photocopy, scan or fax documents.

**Tasks include:**

- a) sorting or classifying materials according to guidelines such as content, purpose, user criteria, or chronological, alphabetical or numerical order;
- b) filing material in drawers, cabinets and storage boxes;
- c) locating and removing materials from files when requested;
- d) keeping records of materials filed and removed;
- e) photocopying, scanning or faxing documents and other records;
- f) performing related tasks; and
- g) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** *(refer to index; unit group 4415)*

4415-01	Clerk, Filing
4415-02	Clerk, Directory Compilation
4415-03	Compiler, Directory
4415-04	Clerk, Photocopying

#### UNIT GROUP 4416 PERSONNEL CLERKS

**Personnel Clerks** maintain and update personnel records such as information on transfers and promotions, performance evaluations, employee leave taken and accumulated, salaries, qualifications and training.

**Tasks include:**

- a) updating information on employment history, salaries, performance evaluations, training and leave taken and accumulated;
- b) initiating records for newly appointed workers and checking records to ensure they are complete;
- c) processing applications for employment and promotions and advising applicants of their application results;
- d) receiving and answering queries about qualifications and employment conditions;
- e) handling the advertisement for job applications and announcements of job openings and job examinations;
- f) maintaining and updating the manual and computerised filing and registration systems, and compiling and preparing reports and documents relating to personnel activities;
- g) storing and retrieving personnel records and files on request;
- h) performing related tasks; and
- i) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** *(refer to index; unit group 4416)*

4416-01	Clerk, Employment
4416-02	Clerk, General Affairs
4416-03	Clerk, Personnel
4416-04	Clerk, Personnel Records

#### UNIT GROUP 4419 CLERICAL SUPPORT WORKERS NOT ELSEWHERE CLASSIFIED

This unit group covers Clerical Support Workers Not Elsewhere Classified in Minor Group 441: Other Clerical Support Workers.

**Tasks include:**

- a) assisting in the preparation of periodicals, advertisements, catalogues and other materials for publication;
- b) assisting in economic management and marketing on the basis of the units that have been placed and the tasks from superiors;
- c) assisting in the teaching of theory and practical in one of the fields such as food preparation / food technology / waiters, captains and supervisors of food / clothes making and garment cutting / sewing / furniture carving;
- d) performing related tasks; and
- e) supervising, scheduling and monitoring the tasks of other workers.

**Example of the occupations classified here:** [\(refer to index; unit group 4419\)](#)

4419-01	Economic Affairs Assistant, Grade E17
4419-02	Training Assistant, Grade E17
4419-06	Clerk, Sales
4419-07	Clerk, Marketing





# 5

## SERVICE AND SALES WORKERS



**51 PERSONAL SERVICES WORKERS****511 TRAVEL ATTENDANTS, CONDUCTORS AND GUIDES**

- 5111 Travel Attendants and Travel Stewards
- 5112 Transport Conductors
- 5113 Travel Guides

**512 COOKS**

- 5121 Cooks

**513 WAITERS AND BARTENDERS**

- 5131 Waiters
- 5132 Bartenders

**514 HAIRDRESSERS, BEAUTICIANS AND RELATED WORKERS**

- 5141 Hairdressers
- 5142 Beauticians and Related Workers

**515 BUILDING AND HOUSEKEEPING SUPERVISORS**

- 5151 Cleaning and Housekeeping Supervisors in Offices, Hotels and Other Establishments
- 5152 Domestic Housekeepers
- 5153 Building Caretakers

**516 OTHER PERSONAL SERVICES WORKERS**

- 5161 Astrologers, Fortune-Tellers and Related Workers
- 5162 Companions and Valets
- 5163 Undertakers and Embalmers
- 5164 Pet Groomers and Animal Care Workers
- 5165 Driving Instructors
- 5169 Personal Services Workers Not Elsewhere Classified

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**52 SALES WORKERS****521 STREET AND MARKET SALESPERSON**

- 5211 Stall and Market Salespersons
- 5212 Street Food Salespersons





## **522 SHOP SALESPERSONS**

- 5221 Shopkeepers
- 5222 Shop Supervisors
- 5223 Shop Sales Assistants

## **523 CASHIERS AND TICKET CLERKS**

- 5231 Cashiers and Ticket Clerks

## **524 OTHER SALES WORKERS**

- 5241 Fashion and Other Models
- 5242 Sales Demonstrators
- 5243 Door-to-Door Salespersons
- 5244 Contact Centre Salespersons
- 5245 Service Station and Pump Attendants
- 5246 Food Counter Attendants
- 5249 Sales Workers Not Elsewhere Classified

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# **53 EDUCATION AND SOCIAL SERVICES WORKERS**

## **531 CHILD CARE WORKERS AND TEACHERS AIDES**

- 5311 Child Care Workers
- 5312 Teachers Aides

## **532 PERSONAL CARE WORKERS IN HEALTH SERVICES**

- 5321 Health Care Assistants
- 5322 Home-Based Personal Care Workers
- 5329 Personal Care Workers in Health Services Not Elsewhere Classified

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# **54 PROTECTIVE SERVICES WORKERS**

## **541 PROTECTIVE SERVICES WORKERS**

- 5411 Fire Fighters
- 5412 Police Officers
- 5413 Prison Guards
- 5414 Security Guards
- 5415 Immigration/ Customs Officers and Assistants
- 5419 Protective Services Workers Not Elsewhere Classified

SUB-MAJOR GROUP

51

52

53

54

51. PERSONAL SERVICES WORKERS

52. SALES WORKERS

53. EDUCATION AND SOCIAL SERVICES WORKERS

54. PROTECTIVE SERVICES WORKERS

# Major Group 5 SERVICE AND SALES WORKERS

## Description

Provide personal services related to travel, housekeeping, catering, personal care, or protection against fire and unlawful acts, or demonstrate and sell goods in wholesale or retail shops and similar establishments as well as at stalls and markets

## Skill Level

Most occupations in this major group require skills at the second level

### SUB-MAJOR 51 PERSONAL SERVICES WORKERS

**Personal Services Workers** provide personal services related to travel, housekeeping, catering, personal and child care, and other personal services.

### MINOR GROUP 511 TRAVEL ATTENDANTS, CONDUCTORS AND GUIDES

**Travel Attendants, Conductors and Guides** provide various personal services in connection with travelling by aircraft, train, ship, bus or other vehicles, and escort individuals and groups on travel tours, sightseeing visits and excursions.

### UNIT GROUP 5111 TRAVEL ATTENDANTS AND TRAVEL STEWARDS

**Travel Attendants and Travel Stewards** render personal services to ensure the comfort and safety of passengers. These include serving meals and beverages and coordinating housekeeping and social activities.

#### Tasks include:

- a) greeting passengers entering aircraft, conducting them to their seats;
- b) conducting safety checks and demonstrating the use of safety equipment such as life belts and oxygen masks and assisting passengers in emergencies;
- c) distributing reading materials, headphones, blankets and similar items and answering passengers' queries;
- d) serving pre-prepared meals and refreshments;
- e) selling duty-free goods to passengers;
- f) administering minor medical aide to passengers in need;
- g) taking care of general needs and comfort of ship and train passengers;
- h) ensuring that safety regulations are complied with;
- i) performing related tasks; and
- j) supervising other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 5111](#))

5111-01	Ship Cabin Attendant
5111-02	Steward/ Stewardess Coordinator
5111-03	Steward/ Stewardess Supervisor
5111-04	Floor Steward/ Stewardess

## UNIT GROUP 5112 TRANSPORT CONDUCTORS

**Transport Conductors** collect or issue tickets and are responsible for safety and comfort on trains, trams, buses and other public transport vehicles.

### Tasks include:

- a) collecting or issuing tickets, passes or fares, or checking the validity of ticket previously issued;
- b) taking charge of sleeping-cars of a passenger train, including checking passengers' tickets, ensuring their safety and entertaining requests for information;
- c) ensuring that safety regulations are respected;
- d) giving information to passengers especially about stops and connections;
- e) cooperating with the driver in conformity with time schedules;
- f) taking appropriate action in emergencies;
- g) helping the station supervisor or operation executive to manage, supervise and overcome problem of traffic operation, staff, trade and others in order to provide efficient and economic service to train passengers;
- h) performing related tasks; and
- i) supervising other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 5112\)](#)

5112-01	Bus Conductor
5112-02	Ticket Inspector
5112-03	Boat / Ferry Conductor
5112-04	Train Conductor

## UNIT GROUP 5113 TRAVEL GUIDES

**Travel Guides** accompany individuals or groups on sightseeing tours or excursions, describe points of interest and provide other guide services.

### Tasks include:

- a) escorting tourists and looking after their comfort;
- b) ensuring that reservations for transport and accommodation are confirmed and prepared itineraries are met;
- c) accompanying tourists on sightseeing tours and describing points of interest;
- d) accompanying tourists to museums and exhibitions and giving information on exhibits;
- e) conducting outdoor activities such as mountain climbing, hunting or fishing;
- f) performing related tasks; and
- g) supervising other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 5113\)](#)

5113-01	Tourist Guide
5113-02	Travel Guide
5113-03	Art Gallery Guide
5113-04	Museum Guide

## MINOR GROUP 512 COOKS

**Cooks** plan, organise, prepare and cook food in hotels, restaurants and other public eating places, on board ships, passenger trains, private households and other institutions or establishments.

### UNIT GROUP 5121 COOKS

**Cooks** plan, organise, prepare and cook food in hotels, restaurants and other public eating places, on board ships, passenger trains, private households and other institutions or establishments.

#### Tasks include:

- a) planning meals and menus, ordering food supplies and preparing and cooking food;
- b) monitoring food quality;
- c) demonstrating techniques and advising on cooking procedures;
- d) planning, supervising and coordinating work in the kitchen;
- e) ensuring cleanliness of crockery, utensils, kitchen equipment and work areas;
- f) organising food promotions;
- g) determining dry and wet ingredients for cooking, receiving and checking ingredients, preparing ingredients, preserving the cleanliness of equipment and kitchen area, and ensuring that kitchenware is stored and locked;
- h) ensuring safe and sanitary food handling practices are complied with;
- i) performing related tasks; and
- j) supervising other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 5121](#))

5121-01	Food Preparation Assistant, Grade N17
5121-02	Cook, Grade N17
5121-03	Chief Cook
5121-04	Cook

## MINOR GROUP 513 WAITERS AND BARTENDERS

**Waiters and Bartenders** serve food and beverages in commercial dining and drinking places such as clubs, institutions and canteens, on board ships and in passenger trains.

### UNIT GROUP 5131 WAITERS

**Waiters** and waitresses serve food and beverages in commercial dining and drinking places such as clubs, institutions and canteens, on board ships and in passenger trains.

#### Tasks include:

- a) setting tables with clean linen, cutlery, crockery and glassware;
- b) setting and arranging tables and escorting guests to their tables;
- c) presenting the menu and recommending menu items to customers;
- d) taking orders and serving food and beverages;
- e) serving food and beverages to customers;
- f) presenting bills to customers and accepting payment;
- g) cleaning the dining area; and
- h) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 5131](#))

5131-01	Waiter
5131-02	Waiter
5131-03	Food and Beverage Supervisor
5131-04	Outlet Supervisor

#### UNIT GROUP 5132 BARTENDERS

**Bartenders** mix and serve alcoholic and non-alcoholic drinks directly to customers at a bar or counter, or through waiters.

**Tasks include:**

- a) setting and arranging tables and escorting guests to their tables;
- b) presenting the menu and recommending menu items to customers;
- c) taking orders and serving food and beverages;
- d) advising on the choice of wines and serving them;
- e) serving alcoholic and non-alcoholic drinks at a bar;
- f) presenting bills to customers and accepting payment;
- g) cleaning glasses, utensils and bar equipment;
- h) planning, organising and controlling the operation of bar;
- i) examining the identity cards of customers for their age to ensure they are legally permitted to buy alcoholic drinks; and
- j) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 5132)*

5132-01	Bartender
5132-02	Bartender Assistant
5132-03	Food and Beverage Bartender
5132-04	Barista

#### MINOR GROUP 514 HAIRDRESSERS, BEAUTICIANS AND RELATED WORKERS

**Hairdressers, Beauticians and Related Workers** cut and style hair, shave and trim beards, give beauty treatment, apply cosmetics and give other kinds of treatment to customers in order to improve their appearance.

#### UNIT GROUP 5141 HAIRDRESSERS

**Hairdressers** shampoo, cut, colour and style hair and massage and treat the scalp.

**Tasks include:**

- a) cutting, washing, colouring and perming hair, shaving or trimming beards and removing facial hair;
- b) giving scalp treatment;
- c) fitting wigs according to customers' requirements;
- d) providing advice on hair care, beauty products and hairstyles;
- e) styling hair into dreadlocks and braids and adding hair extensions;
- f) cleaning work areas and sanitising instruments;
- g) performing related tasks; and
- h) supervising other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 5141)*

5141-01	Coiffeur
5141-02	Hairdresser
5141-03	Barber
5141-04	Hair Stylist



## UNIT GROUP 5142 BEAUTICIANS AND RELATED WORKERS

**Beauticians and Related Workers** give facial and body beauty treatments, apply cosmetics and give other kinds of treatment to individuals to improve their appearance.

**Tasks include:**

- a) making up artists for a show;
- b) cleaning and applying cream, lotion and related products to the face and parts of the body;
- c) giving facial and body massage;
- d) applying make-up on clients or actors and other performers;
- e) shaping, colouring and giving other treatments to eyebrows and eyelashes;
- f) dyeing hair and giving scalp treatment;
- g) cleaning, shaping and polishing finger and toe nails and treating minor ailments of the human foot such as corns, calluses or toe nail problems;
- h) preparing special cosmetics for individual clients;
- i) attending to clients taking baths and administering elementary massage;
- j) using waxing, sugaring and depilation techniques to remove unwanted body hair;
- k) advising clients on diet and exercise to assist in weight loss and slimming;
- l) preparing necessary materials such as latex or plastic masks, wigs and beards;
- m) performing related tasks; and
- n) supervising other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 5142\)](#)

5142-01	Beautician, Grade B11
5142-02	Beautician
5142-03	Make-Up Artist
5142-04	Manicurist

## MINOR GROUP 515 BUILDING AND HOUSEKEEPING SUPERVISORS

**Building and Housekeeping Supervisors** coordinate, schedule and supervise the work of cleaners and other housekeeping staff in commercial, industrial and residential premises. They take responsibility for housekeeping and caretaking functions in hotels, offices, apartments, houses and private dwellings.

## UNIT GROUP 5151 CLEANING AND HOUSEKEEPING SUPERVISORS IN OFFICES, HOTELS AND OTHER ESTABLISHMENTS

**Cleaning and Housekeeping Supervisors in Offices, Hotels and Other Establishments** organise, supervise and carry out housekeeping functions in order to keep clean and tidy the interiors and fixtures of hotels, offices and other establishments, as well as of aircraft, trains, buses and similar vehicles.

**Tasks include:**

- a) training, discharging, organising and supervising helpers, cleaners and other housekeeping staff;
- b) purchasing or controlling the purchase of supplies;
- c) controlling storage and issue of supplies;
- d) supervising the general welfare and conduct of individuals in institutions;
- e) sweeping or vacuuming, washing and polishing floors, furniture and other fixtures;
- f) making beds, cleaning bathrooms, supplying towels, soap and related items;
- g) cleaning kitchens and generally helping with kitchen work, including dishwashing;
- h) restocking minibars and replenishing items such as drinking glasses and stationery;

- i) performing related tasks; and
- j) supervising other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 5151\)](#)

5151-01	Hotel and Lodging Banquet Supervisor
5151-02	Hotel and Lodging Floor Supervisor
5151-03	Housekeeping Supervisor
5151-04	Laundry Supervisor

#### UNIT GROUP 5152 DOMESTIC HOUSEKEEPERS

**Domestic Housekeepers** organise, supervise and carry out housekeeping functions in private households with or without the support of subordinate staff.

**Tasks include:**

- a) supervising workers employed in households as domestic staff;
- b) purchasing or controlling the purchase of supplies;
- c) controlling storage and issue of supplies;
- d) assisting in cases of minor injury or illness by performing tasks such as taking temperature, giving medicine or putting on bandages;
- e) sweeping, vacuuming, washing and polishing floors, furniture and other fixtures;
- f) making beds, cleaning bathrooms, supplying towels, soap and related items;
- g) taking care of household pets and plants, receiving visitors, answering telephones, delivering messages and shopping for groceries;
- h) preparing and cooking meals, setting and clearing tables and serving food and beverages;
- i) cleaning kitchens and generally helping with kitchen work, including dishwashing;
- j) performing related tasks; and
- k) supervising other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 5152\)](#)

5152-01	Housekeeper, Private
5152-02	Butler
5152-03	Domestic Housekeeper
5152-04	House Steward, Private

#### UNIT GROUP 5153 BUILDING CARETAKERS

**Building Caretakers** take care of apartments, houses, hotels, hostels, offices and other buildings and maintain them in a clean and proper condition. They may supervise other workers and contractors depending on the size and nature of the building concerned.

**Tasks include:**

- a) supervising the work of cleaning, housekeeping and building maintenance staff and contractors;
- b) participating in cleaning, simple repairs and maintenance of building interiors;
- c) regulating conduct of tenants and visitors in such matters as noise abatement or misuse of property;
- d) providing small services to absent tenants such as accepting deliveries on their behalf or providing requested information to callers;
- e) notifying the management and owners of buildings of the need for repairs;
- f) patrolling buildings to ensure security is maintained;
- g) filling in registration forms and providing tenants with copies of rules;

- h) performing related tasks; and
- i) supervising other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 5153](#))

5153-01	Hostel Supervisor, Grade N17
5153-02	Building Caretaker
5153-03	Warden, Hostel
5153-04	Warden, Dormitory

#### **MINOR GROUP 516 OTHER PERSONAL SERVICES WORKERS**

**Other Personal Services Workers** predict future events in people's lives, provide companionship and other personal services; groom, train and care for animals; provide embalming and funeral services; and instruct learner drivers.

#### **UNIT GROUP 5161 ASTROLOGERS, FORTUNE-TELLERS AND RELATED WORKERS**

**Astrologers, Fortune-Tellers and Related Workers** predict future events in people's lives by practising astrology or related techniques and give warnings and advice on possible courses of action.

**Tasks include:**

- a) reading horoscopes of individuals at birth or forecasting future events and conditions of their lives;
- b) determining auspicious times for various human activities such as inaugurations, marriages, journeys and other religious ceremonies;
- c) studying the influence of the constellations and of other phenomena on a person's life and situation;
- d) interpreting a person's characteristics through reading of the palms, playing cards, etc.;
- e) advising individuals on precautions to be taken to avoid evil influences; and
- f) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 5161](#))

5161-01	Astrologer
5161-02	Palmist
5161-03	Fortune-Teller
5161-04	Numerologist

#### **UNIT GROUP 5162 COMPANIONS AND VALETS**

**Companions and Valets** provide companionship and attend to various personal needs of the employer.

**Tasks include:**

- a) providing companionship to employer by accompanying him/her to various places, reading, conversing and participating in activities such as sports;
- b) assisting in entertaining visitors in employer's home;
- c) keeping wardrobe and personal effects of the employer in a proper condition; and
- d) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 5162](#))

5162-01	Lady-in-Waiting
5162-02	Companion
5162-03	Companion, Social
5162-04	Valet

## UNIT GROUP 5163 UNDERTAKERS AND EMBALMERS

**Undertakers and Embalmers** perform various tasks in the funeral of human remains.

### Tasks include:

- a) making arrangements for and conducting funerals and cremations;
- b) embalming human remains to retard or repress the process of decay;
- c) puncturing internal organs through the abdomen to remove natural fluids and gases;
- d) restoring injured portions of the body to their normal appearance by affixing pieces of moulded wax, plaster of Paris or other materials;
- e) making arrangements for and conducting funerals;
- f) interviewing family to obtain data about the deceased and other information and completing documents;
- g) bathing human remains and wrapping them in shroud;
- h) weeping during the recounting of the goodness, honesty of the deceased and exhibiting the sadness and grief of the deceased's family in losing a loved one; and
- i) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 5163\)](#)

5163-01	Attendant, Mortuary
5163-02	Undertaker
5163-03	Embalmer
5163-04	Moirologist

## UNIT GROUP 5164 PET GROOMERS AND ANIMAL CARE WORKERS

**Pet Groomers and Animal Care Workers** feed, care for, groom, bathe and exercise animals, and clean, disinfect and repair their cages and also specialise in grooming or maintaining a pet's appearance.

### Tasks include:

- a) caring for animals in zoos, bird and aquatic parks;
- b) understanding and applying techniques required to feed, handle, train and groom animals;
- c) cleaning and disinfecting cages and surrounding areas, and shampooing, clipping nails and grooming animals;
- d) monitoring and documenting animal behaviour, preparing food and feeding animals, fish and birds at scheduled intervals;
- e) assisting scientists and researchers in conducting laboratory tests on animals;
- f) playing with the animals, providing companionship and observing behavioural changes that could indicate illness or injury;
- g) cleaning and sanitising equipment to prevent the spread of disease, storing grooming equipment, keeping appointment schedules and discussing grooming needs of animals with customers;
- h) training and performing with animals; and
- i) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 5164\)](#)

5164-01	Specialised General Worker (Mahout), Grade R3
5164-02	Animal Caretaker
5164-03	Keeper in Zoo, Bird and Aquatic Parks
5164-04	Zookeeper

## UNIT GROUP 5165 DRIVING INSTRUCTORS

**Driving Instructors** teach students to drive and demonstrate proper driving techniques.

**Tasks include:**

- a) teaching students the rules of driving;
- b) teaching students road safety;
- c) teaching students to operate the car;
- d) keeping students safe by operating dual controls (e.g. brakes and mirrors);
- e) monitoring students' driving techniques;
- f) teaching car maintenance; and
- g) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 5165\)](#)

5165-01	Driving Instructor
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## UNIT GROUP 5169 PERSONAL SERVICES WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Personal Services Workers Not Elsewhere Classified in Minor Group 516: Other Personal Services Workers.

**Tasks include:**

- a) accompanying clients to restaurants and other places;
- b) acting as a dance partner;
- c) welcoming clients to a night club and ensuring that they are thoroughly entertained; and
- d) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 5169\)](#)

5169-01	Social Escort
5169-02	Club Host
5169-03	Dance Partner
5169-04	Guest Relations Officer

## SUB-MAJOR 52 SALES WORKERS

**Sales Workers** sell and demonstrate goods in wholesale or retail shops, at stalls and markets, door-to-door, via telephone or customer contact centres. They may record and accept payment for goods and services purchased, and may operate small retail outlets.

### MINOR GROUP 521 STREET AND MARKET SALESPERSONS

**Street and Market Salespersons** sell goods from stalls at markets or streets and prepare and sell hot or cold food and drinks in streets and public places.

#### UNIT GROUP 5211 STALL AND MARKET SALESPERSONS

**Stall and Market Salespersons** sell various goods from stalls in open-air or covered markets or from stalls in streets or other open spaces.

**Tasks include:**

- a) obtaining from the local authorities permission to set up a stall at a particular place on a street or other open spaces;
- b) determining the variety of products, stock and price of goods to be sold;
- c) buying or contracting goods from wholesale suppliers or directly from producers;
- d) displaying products and explaining the qualities of the products to customers;
- e) stacking and displaying goods for sale, and wrapping and packing goods sold;
- f) receiving payment and keeping accounts; and
- g) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 5211)*

5211-01	Street Stall Salesperson
5211-02	Market Salesperson
5211-03	Kiosk Salesperson
5211-04	Counter Sales Promoter

#### UNIT GROUP 5212 STREET FOOD SALESPERSONS

**Street Food Salespersons** prepare and sell hot or cold food and drinks ready for immediate consumption on the streets and public places such as stations, cinemas or theatres.

**Tasks include:**

- a) obtaining permission from the local authority to set up a stall at a particular place on the street or other open spaces;
- b) obtaining food and drinks for sale;
- c) loading and unloading, pushing, pedalling or pulling a hand-cart, truck, tray or basket to bring food and drinks to the desired place on the streets, or public places such as stations or cinemas;
- d) displaying and selling food and drinks, and accepting payment;
- e) loading and unloading goods for sale; and
- f) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 5212)*

5212-01	Hawker (Food)
5212-02	Street Food Vendor



## MINOR GROUP 522 SHOP SALESPERSONS

**Shop Salespersons** sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments. They explain the functions and qualities of these goods or services, and may operate small shops.

### UNIT GROUP 5221 **SHOPKEEPERS**

**Shopkeepers** operate small retail shops either independently or with support from a small number of others.

**Tasks include:**

- a) loading and unloading goods for sale;
- b) receiving payment and keeping accounts;
- c) stacking and displaying items for sale;
- d) advising customers on the selection, price, delivery, use and care of goods and services;
- e) preparing bills, invoices or receipts;
- f) checking stock and participating in stock takes;
- g) performing related tasks; and
- h) supervising other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 5221)*

5221-01	Shopkeeper
5221-02	Grocer
5221-03	Newsagent

### UNIT GROUP 5222 **SHOP SUPERVISORS**

**Shop Supervisors** supervise and coordinate the activities of shop sales assistants and other workers in retail and wholesale shops such as supermarkets and department stores.

**Tasks include:**

- a) estimating the types and quantities of goods required by customers and ensuring adequate stock;
- b) teaching staff the sales procedures, including how to deal with difficult and complex cases;
- c) supervising sales staff;
- d) estimating needs of the business, purchase or authorise the purchase of goods of the types, qualities and quantities required, usually under the general direction of the proprietor or manager;
- e) examining returned goods and deciding on appropriate action;
- f) supervising and instructing sales and other staff or the sales department in their day-to-day work;
- g) ensuring the prices of goods and services are displayed;
- h) checking stock and participating in stock takes;
- i) performing related tasks; and
- j) supervising other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 5222)*

5222-01	Shop Supervisor
5222-02	Sales Supervisor
5222-03	Supermarket Supervisor
5222-04	Checkout Supervisor

#### UNIT GROUP 5223 SHOP SALES ASSISTANTS

**Shop Sales Assistants** sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments. They explain the functions and qualities of these goods or services.

**Tasks include:**

- a) moving goods to be sold from storage area to sales area and placing them on display;
- b) explaining the functions and qualities of a product;
- c) ascertaining the nature and quality of a product desired by a customer;
- d) assisting customers in making a choice;
- e) quoting prices, credit terms and discounts;
- f) packing and arranging delivery of goods, if necessary;
- g) preparing bills, invoices or receipts;
- h) verifying cashier's receipt, if necessary;
- i) giving demonstrations of articles on sale in order to inform customers about their characteristics and mode of use, as well as to stimulate buying interest; and
- j) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 5223](#))

5223-01	Sales Assistant
5223-02	Shop Assistant
5223-03	Salesperson (Retail Establishment)
5223-04	Salesperson (Wholesale Establishment)

#### MINOR GROUP 523 CASHIERS AND TICKET CLERKS

**Cashiers and Ticket Clerks** deal directly with clients in connection with receiving, changing and paying out money in shops, theatres or cinemas, banks, post offices and other establishments such as shops and ticket offices or similar establishments.

#### UNIT GROUP 5231 CASHIERS AND TICKET CLERKS

**Cashiers and Ticket Clerks** receive directly from clients payment for goods or services in establishments such as shops and ticket offices or similar establishments.

**Tasks include:**

- a) establishing or determining the price of goods, services or admission and tabulating the bill using a calculator, cash register or optical price scanner;
- b) receiving and verifying cash, cheque or credit card payment in shops, ticket counters or similar establishments;
- c) giving change and issuing receipts;
- d) issuing tickets at the ticket counter and receiving corresponding payment;
- e) paying out cash against written orders, credit notes, or resulting from currency exchanges and obtaining receipts;
- f) keeping records and reconciling them with cash balance;
- g) receiving incoming cash and checking it against sales slips and other documents;
- h) operating the cash register;
- i) wrapping or placing merchandise in bags; and
- j) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 5231](#))

5231-01	Cashier
5231-02	Cashier, Office of Supervisor
5231-03	Cashier, Assistant
5231-04	Cashier, Parking

## MINOR GROUP 524 OTHER SALES WORKERS

**Other Sales Workers** display, demonstrate and sell goods, food and services, usually to the general public, in contexts other than sales in markets, streets and shops.

### UNIT GROUP 5241 **FASHION AND OTHER MODELS**

**Fashion and Other Models** wear and display clothing and accessories, and pose for photographs, film and video, advertising, still photography or for artistic creation.

**Tasks include:**

- a) dressing in sample apparel of new or current styles or of type wanted by the customer;
- b) modelling and demonstrating style and other characteristics to best advantage;
- c) walking, turning and posing to demonstrate style and characteristics of garments, fashion accessories and other merchandise;
- d) posing as model for artistic photography, sculpture or painting;
- e) posing as model for film and video recording in the field of advertising;
- f) performing related tasks; and
- g) supervising other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 5241](#))

5241-01	Fashion Model
5241-02	Advertising Model
5241-03	Artist's Model

### UNIT GROUP 5242 **SALES DEMONSTRATORS**

**Sales Demonstrators** demonstrate goods at commercial premises, exhibitions and private homes.

**Tasks include:**

- a) stacking and displaying items for sales;
- b) advising customers on the selection, price, delivery, use and care of goods and services;
- c) giving demonstrations of articles on sale in order to inform customers about their characteristics and mode of use, as well as to stimulate buying interest;
- d) taking orders and making arrangements for payment, delivery and collection of goods;
- e) offering samples of goods and distributing catalogues and advertising material;
- f) contacting dealers or individuals by telephone to solicit business;
- g) performing related tasks; and
- h) supervising other workers.

**Examples of the occupations classified here:** ([refer to index; unit group 5242](#))

5242-01	Demonstrator
5242-02	Sales Promoter
5242-03	Sales Merchandiser

#### UNIT GROUP 5243 DOOR-TO-DOOR SALESPERSONS

**Door-to-Door Salespersons** sell goods and services and solicit business for establishments by approaching or visiting potential customers, usually residents in private homes, by going from door to door.

**Tasks include:**

- a) contacting customers by telephone, mail or in person to offer or persuade them to purchase merchandise or services;
- b) stacking and displaying merchandise samples at events or on racks;
- c) delivering merchandise, serving customers, collecting payment and giving change;
- d) approaching potential customers or going on foot or by vehicle to deliver or sell merchandise or services;
- e) distributing product samples or brochures detailing the product or services;
- f) taking orders for goods and entering orders into the computer system;
- g) explaining prices of products or services and demonstrating use of the products; and
- h) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 5243\)](#)

5243-01	Direct Selling Salesperson
5243-02	Door-to-Door Salesperson
5243-03	Door-to-Door Sales Representative

#### UNIT GROUP 5244 CONTACT CENTRE SALESPERSONS

**Contact Centre Salespersons** respond to telephone calls or other communication media to assist customers with specific queries, and promote goods and services, obtain sales and arrange sales visits.

**Tasks include:**

- a) answering incoming calls to assist customers who have specific queries;
- b) promoting customers' interest in the services and products offered by the company;
- c) arranging for the dispatch of products, information packages, brochures, etc. to clients and other interested parties;
- d) soliciting feedback to improve service, responding to requests for service/assistance; and
- e) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 5244\)](#)

5244-01	Customer Contact Centre Salesperson
5244-02	Contact Centre Personnel
5244-03	Outbound Contact Centre Consultant
5244-04	Telesales Agent

## UNIT GROUP 5245 SERVICE STATION AND PUMP ATTENDANTS

**Service Station and Pump Attendants** sell fuel, lubricants and other automotive products and provide services such as fuelling, cleaning, lubricating and performing minor repairs to motor vehicles.

### Tasks include:

- a) filling the petrol tank;
- b) checking and replenishing air pressure in vehicle tyres, oil and other vehicle fluids;
- c) washing the windscreen and windows of vehicles;
- d) performing minor repairs to vehicles such as replacing tyres, light bulbs and windscreen wiper blades;
- e) maintaining and operating an automatic car wash;
- f) collecting payment from customers;
- g) cleaning petrol pumps, shops and surrounding driveways;
- h) controlling stock and preparing daily reports on fuel, oil, accessories and other items sold;
- i) performing related tasks; and
- j) supervising other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 5245\)](#)

5245-01	Petrol Pump Attendant
5245-02	Service Station Attendant

## UNIT GROUP 5246 FOOD COUNTER ATTENDANTS

**Food Counter Attendants** serve customers at food counters and prepare simple food items in restaurants, cafeterias, hotels, fast food outlets, hospitals and other similar establishments.

### Tasks include:

- a) serving food to customers at counters;
- b) ascertaining the products desired by customers, assisting customers in making choices and taking orders;
- c) preparing simple food items and reheating prepared food;
- d) packing takeaway food; and
- e) receiving payment for food items purchased.

**Examples of the occupations classified here:** [\(refer to index; unit group 5246\)](#)

5246-01	Food Counter Attendant
5246-02	Cafeteria Counter Attendant

#### UNIT GROUP 5249 SALES WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Sales Workers Not Elsewhere Classified in Minor Group 524: Other Sales Workers.

**Tasks include:**

- a) stacking and displaying items for sale;
- b) advising customers on the selection, price, delivery, use and care of goods and services;
- c) preparing bills, invoices or receipts;
- d) giving demonstrations of articles on sale in order to inform customers about their characteristics and mode of use, as well as to stimulate buying interest;
- e) contacting dealers or private individuals by telephone to solicit sales for good or services;
- f) checking stock and participating in stock takes;
- g) performing related tasks; and
- h) supervising other workers.

**Examples of the occupations classified here:** [\(refer to index; unit group 5249\)](#)

5249-01	Rental Salesperson
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## SUB-MAJOR 53 **EDUCATION AND SOCIAL SERVICES WORKERS**

**Education and Social Services Workers** provide care, supervision and assistance for children, patients and the elderly, convalescent or disabled persons in institutional and residential settings.

### MINOR GROUP 531 **CHILD CARE WORKERS AND TEACHERS AIDES**

**Child Care Workers and Teachers Aides** provide care and supervision for children in schools, residential homes and child care facilities.

#### UNIT GROUP 5311 **CHILD CARE WORKERS**

**Child Care Workers** provide care and supervision of children in residential homes and day care centres.

**Tasks include:**

- a) assisting children to bath, dress and feed themselves;
- b) taking children to and from school or outdoors for recreation;
- c) playing games with children, or entertaining them by reading or story-telling;
- d) looking after the welfare and safety of children in the absence of their parents;
- e) maintaining order in children's bedrooms and playrooms;
- f) taking care of school children on excursions, museum visits and similar outings;
- g) performing related tasks; and
- h) supervising other workers.

**Examples of the occupations classified here:** (*refer to index; unit group 5311*)

5311-01	Child Care Worker
5311-02	Amah
5311-03	Nanny
5311-04	Babysitter

#### UNIT GROUP 5312 **TEACHERS AIDES**

**Teachers Aides** perform non-teaching duties to assist teachers, and provide care and supervision for children in schools and pre-schools.

**Tasks include:**

- a) carrying out tasks to assist teachers in pre-school classes and caring for pupils;
- b) demonstrating, supervising and participating in activities that enhance the physical, social, emotional and intellectual development of children in schools and pre-schools;
- c) preparing indoor and outdoor areas for learning and recreational activities;
- d) assisting children with intellectual, physical, behavioural and other learning difficulties with their studies;
- e) assisting children individually to learn social skills;
- f) assisting in the preparation of teaching materials, and copying and collating written and printed materials;
- g) operating audio-visual equipment, computers and other teaching aids;
- h) distributing and collecting lesson material; and
- i) performing related tasks.

**Examples of the occupations classified here:** (*refer to index; unit group 5312*)

5312-01	Pupil Management Assistant, Grade N17
5312-02	Teachers Aide
5312-03	Pre-school Assistant
5312-04	Kindergarten Assistant

## MINOR GROUP 532 PERSONAL CARE WORKERS IN HEALTH SERVICES

**Personal Care Workers in Health Services** provide personal care and assistance with mobility and activities of daily living to patients and the elderly, convalescent and disabled people in health care centres and residential settings.

### UNIT GROUP 5321 **HEALTH CARE ASSISTANTS**

**Health Care Assistants** provide personal care and assistance with activities of daily living to patients and residents in a variety of health care settings such as hospitals, clinics and nursing care centres.

**Tasks include:**

- a) assisting patients with personal and therapeutic care needs such as personal hygiene, feeding, dressing, physical mobility and exercise, communication, taking medications and changing dressings;
- b) positioning, lifting and moving patients and placing them in wheelchairs or on movable beds;
- c) maintaining the cleanliness of the patients' surroundings, such as cleaning the patients' rooms and changing the bed linen;
- d) assisting with the patients' overall comfort;
- e) monitoring patients' conditions by taking their temperature, pulse, respiration and weight; and
- f) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 5321\)](#)

5321-01	Health Assistant, Grade U3
5321-02	Public Health Assistant, Grade U11
5321-03	Nursing Assistant
5321-04	Nursing Medical Assistant

### UNIT GROUP 5322 **HOME-BASED PERSONAL CARE WORKERS**

**Home-Based Personal Care Workers** provide routine personal care and assistance with activities of daily living to persons in need of such care due to the effects of ageing, illness, injury or other physical or mental conditions in private homes and other residential settings.

**Tasks include:**

- a) helping with daily tasks such as meal preparation, medication reminders, laundry, light housekeeping, delivery and pick up of groceries, shopping, transport arrangement and accompaniment of customers;
- b) bathing, dressing, moving patients, helping them to use the toilet, eat and walk;
- c) lightening housework, preparing meals, taking medications, shopping for groceries and clothes, using the telephone and managing money that enable the patient to live independently in the community;
- d) assisting elderly or disabled people with daily activities at their home or in care centres;
- e) advising families, the elderly and the disabled on such matters as nutrition, hygiene and home facilities;
- f) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 5322\)](#)

5322-01	Care Aide (Home)
5322-02	Birth Assistant (Home)
5322-03	Nursing Aide (Home)
5322-04	Personal Care Provider

#### UNIT GROUP 5329 PERSONAL CARE WORKERS IN HEALTH SERVICES NOT ELSEWHERE CLASSIFIED

This unit group includes Personal Care Workers in Health Services Not Elsewhere Classified in Minor Group 532: Personal Care Workers in Health Services.

**Tasks include:**

- a) performing related tasks; and
- b) supervising other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 5329)*

5329-01	First-Aid Attendant
5329-02	Medical Imaging Assistant
5329-03	Phlebotomist
5329-04	Sterilisation Aide

## SUB-MAJOR 54 PROTECTIVE SERVICES WORKERS

**Protective Services Workers** provide protective services related to fire fighters, police officers, prison guards, security guards and protective services not elsewhere classified.

### MINOR GROUP 541 PROTECTIVE SERVICES WORKERS

**Protective Services Workers** protect individuals and property against fire and other hazards, maintain law and order and enforce laws and regulations.

#### UNIT GROUP 5411 **FIRE FIGHTERS**

**Fire Fighters** prevent and extinguish fires, rescue lives, salvage property and conduct rescue efforts.

**Tasks include:**

- a) performing fire fighting and rescue operations;
- b) conducting daily maintenance of fire fighting equipment efficiently;
- c) rescuing people and salvaging property and possessions during and after fires and major accidents;
- d) preventing or limiting the spread of dangerous substances in the event of fires or accidents;
- e) directing rescue operations to save trapped people, animals, property and rendering first aid to injured victims;
- f) informing the public about fire prevention;
- g) investigating causes of a fire and submitting the report to superiors;
- h) performing related tasks; and
- i) supervising other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 5411)*

5411-01	Fire Officer, Grade KB17
5411-02	Fire Fighter
5411-03	Fire Prevention Officer
5411-04	Forest Fire Fighter

#### UNIT GROUP 5412 **POLICE OFFICERS**

**Police Officers** maintain law and order and enforce laws and regulations.

**Tasks include:**

- a) performing policing duties;
- b) planning, preventing crime, investigating, arresting and charging, directing traffic, gathering intelligence, preparing equipment and communication and maintaining public security on land, in the sea and air;
- c) arresting people who contravene the law;
- d) maintaining law and order, protecting people and property from hazards and unlawful acts;
- e) issuing summonses to traffic offenders, assuming authority in the event of an accident;
- f) rendering first aid and conducting the necessary investigations, maintaining order during fires, inspecting authorised places of public assembly, and providing general information;
- g) keeping records, preparing reports on activities and giving evidence in court;
- h) performing related tasks; and

- i) supervising other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 5412)*

5412-01	Low-Ranking Police Officer and Auxiliary Constable, Grade YT1
5412-02	Low-Ranking Police Officer and Aboriginal Constable, Grade YP1
5412-03	Police Volunteer
5412-04	Police Patrol Officer

#### **UNIT GROUP 5413 PRISON GUARDS**

**Prison Guards** watch over and maintain discipline among inmates of prisons, reformatories or penitentiaries.

**Tasks include:**

- a) guarding prisoners (detainees/juveniles) in terms of physical safety and management inclusive of rehabilitation and guard duties of prisoners undergoing treatment at hospitals or attending trial in court;
- b) searching arriving prisoners, putting their valuables in safekeeping, escorting prisoners to prison cells and locking them in;
- c) making periodic inspection tours of prison cells;
- d) supervising prisoners at work, meals or during walks and patrolling prison areas to prevent escape by prisoners;
- e) performing related tasks; and
- f) supervising other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 5413)*

5413-01	Prison Officer, Grade KX17
5413-02	Prison Guard
5413-03	Prison Warden

#### **UNIT GROUP 5414 SECURITY GUARDS**

**Security Guards** watch over industrial plants, warehouses, houses and other property against fire, theft or illegal entry or accompanying vehicles transporting cash or valuables to protect against theft or robbery.

**Tasks include:**

- a) recording particulars of vehicles entering or leaving the plant or premises;
- b) checking vehicles leaving the premises to prevent unauthorised removal of goods;
- c) patrolling inside and around premises to prevent unauthorised entry;
- d) accompanying or riding in vehicles transporting cash, payroll or valuables to protect against theft or robbery;
- e) performing security checks of passengers and luggage at airports;
- f) ushering people into courtrooms and similar establishments;
- g) monitoring the guarding of all main gateways and entrances to buildings and directing security guards to watch visitors entering the complex;
- h) patrolling inside and outside the building;
- i) performing the duties of a bodyguard;
- j) performing related tasks; and
- k) supervising other workers.

Examples of the occupations classified here: [\(refer to index; unit group 5414\)](#)

5414-01	Security Assistant, Grade KP17
5414-02	Security Guard, Grade KP11
5414-06	Guard, Gambling Activities
5414-07	Bodyguard

#### UNIT GROUP 5415 IMMIGRATION/ CUSTOMS OFFICERS AND ASSISTANTS

**Immigration/ Customs Officers and Assistants** help to examine and assess the admissibility of all passengers at seaports and airports. They are involved in preventive work, searching of vehicles, freight and examination of documentation.

**Tasks include:**

- examining imported / exported goods, luggage entering/exiting the gates of the country and balancing manifests;
- controlling the movement of goods in / out of the free zones, licensed manufacturing warehouses, effective warehouses, excise factories, performing the duties of cashier and collection of duty;
- carrying out prevention duties such as espionage, raids, patrols and search of vessels / vehicles and assisting in common administrative tasks;
- selecting and targeting individual vehicles based on intelligence, previous offences, previous shipping information, computer records and current trends;
- searching individuals, vehicles and cargo for smuggled goods;
- examining documentation relating to imported freight;
- examining freight physically to ensure that the goods carried correspond with the documented description;
- arresting individuals suspected of smuggling;
- assisting in the enforcement of the law, examining wholesale and retail business premises, aiding in anti-smuggling operation duties, wholesale and retail licence application, investigating cases for which action has been taken under enforced laws, processing permit applications for rice transfer, collecting information on controlled goods, processing applications for import licence, rice by-products such as rice flour, glutinous rice flour, rice vermicelli, etc. and preparing information relating to import and export of these goods;
- performing related tasks; and
- supervising, scheduling and monitoring the tasks of other workers.

Examples of the occupations classified here: [\(refer to index; unit group 5415\)](#)

5415-01	Immigration Officer, Grade KP17
5415-02	Customs Superintendent Assistant, Grade W17

#### UNIT GROUP 5419 PROTECTIVE SERVICES WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Protective Services Workers Not Elsewhere Classified in Minor Group 541: Protective Service Workers.

**Tasks include:**

- ensuring the safety and cleanliness of a swimming pool for use and that the public adhere to the instructions and prescribed regulations pertaining to the use of the swimming pool;
- monitoring and ensuring the safety of users of water recreation devices while ensuring the equipment used is not damaged and is safe;



- c) performing the duties of a bodyguard;
- d) patrolling beaches and swimming pools to prevent accidents and to rescue bathers from drowning;
- e) patrolling natural reserves, game parks, forest areas and enclosures to prevent theft and destruction;
- f) performing various underwater tasks connected with rescue work or recovery of dead bodies;
- g) taking responsibility for rehabilitation and caring of parks, supervision of the employees in fieldwork, and patrolling the boundaries of a park;
- h) directing traffic and enforcing its authority in the event of an emergency;
- i) performing related tasks; and
- j) supervising other workers.

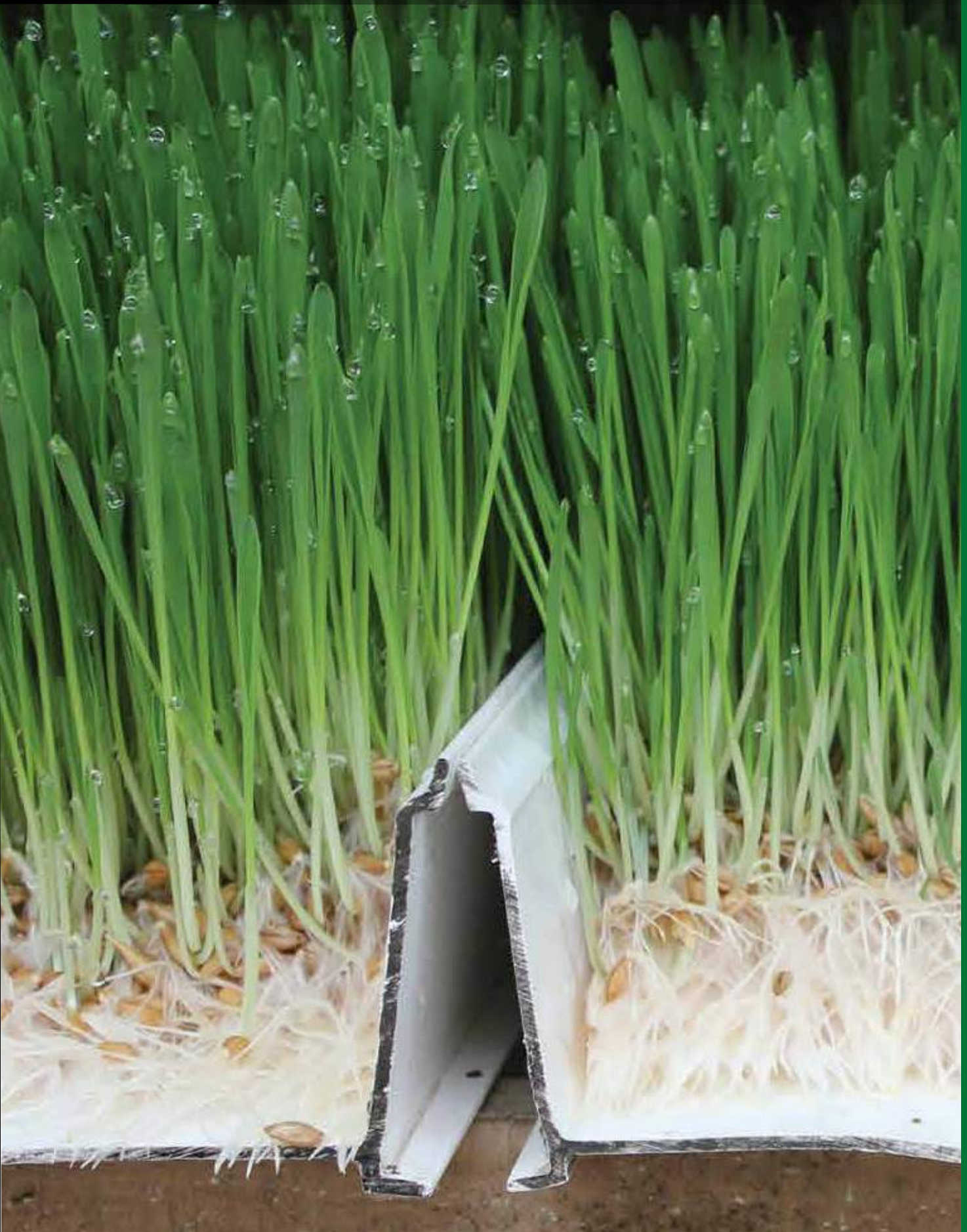
**Examples of the occupations classified here:** *(refer to index; unit group 5419)*

5419-01	Lifeguard, Grade N1
5419-02	Maritime Enforcement Officers of Other Ranks, Grade X1
5419-03	Game Warden
5419-04	Park Warden, Animal Recreation



# 6

## SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS



## **61 MARKET-ORIENTED SKILLED AGRICULTURAL AND LIVESTOCK WORKERS**

### **611 MARKET GARDENERS AND CROP GROWERS**

- 6111 Field Crop Growers
- 6112 Shrub Crop Growers
- 6113 Gardeners, Horticultural and Nursery Growers
- 6114 Mixed Crop Growers
- 6115 Vegetable Growers

### **612 ANIMAL PRODUCERS**

- 6121 Livestock and Dairy Producers
- 6122 Poultry Producers
- 6123 Apiarists and Sericulturists
- 6129 Animal Producers and Related Workers Not Elsewhere Classified

### **613 MIXED CROP AND ANIMAL PRODUCERS**

- 6131 Mixed Crop and Animal Producers

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## **62 MARKET-ORIENTED SKILLED FORESTRY, FISHERY AND HUNTING WORKERS**

### **621 SKILLED FORESTRY AND RELATED WORKERS**

- 6211 Skilled Forestry and Related Workers

### **622 SKILLED FISHERY WORKERS, HUNTERS AND TRAPPERS**

- 6221 Fishery and Aquaculture Producers
- 6222 Skilled Inland and Coastal Waters Fishery Workers
- 6223 Skilled Deep-Sea Fishery Workers
- 6224 Hunters and Trappers



## **63 SUBSISTENCE FARMERS, FISHERMEN, HUNTERS AND GATHERERS**

### **631 SUBSISTENCE CROP FARMERS**

6311 Subsistence Crop Farmers

### **632 SUBSISTENCE LIVESTOCK FARMERS**

6321 Subsistence Livestock Farmers

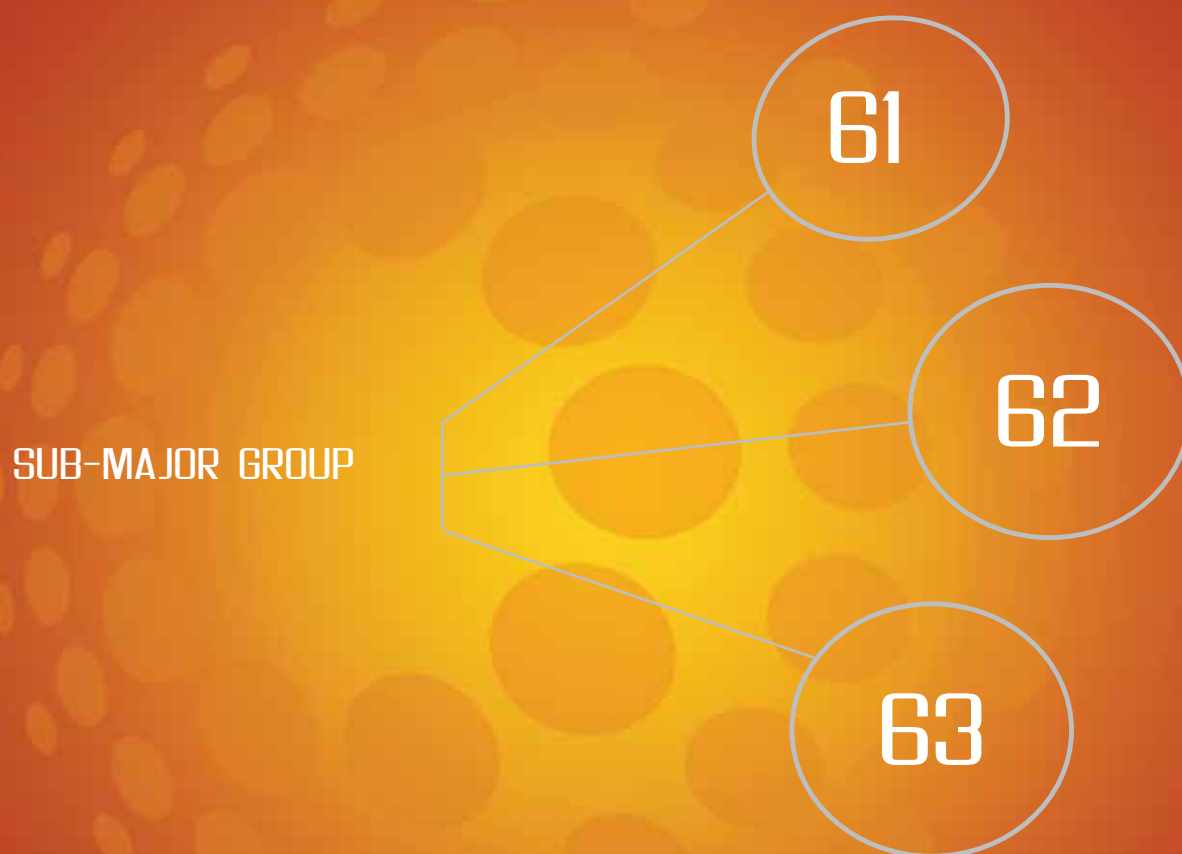
### **633 SUBSISTENCE MIXED CROP AND LIVESTOCK FARMERS**

6331 Subsistence Mixed Crop and Livestock Farmers

### **634 SUBSISTENCE FISHERMEN, HUNTERS, TRAPPERS AND GATHERERS**

6341 Subsistence Fishermen, Hunters, Trappers and Gatherers





61. MARKET-ORIENTED SKILLED AGRICULTURAL AND LIVESTOCK WORKERS

62. MARKET-ORIENTED SKILLED FORESTRY, FISHERY AND HUNTING WORKERS

63. SUBSISTENCE FARMERS, FISHERMEN, HUNTERS AND GATHERERS



## Description

Grow and harvest field or tree and shrub crops, gather wild fruit, herbs and vegetables, breed, tend or hunt animals, produce a variety of animal husbandry products, cultivate, conserve and gather forest products, breed or catch fish and cultivate or gather other forms of aquatic life

## Skill Level

Most occupations in this major group require skills at the second level

### SUB-MAJOR 61 MARKET-ORIENTED SKILLED AGRICULTURAL AND LIVESTOCK WORKERS

**Market-Oriented Skilled Agricultural and Livestock Workers** plan and carry out the necessary operations to grow and harvest field or tree and shrub crops, breed animals, produce a variety of animal husbandry products, or cultivate, conserve and gather forest products for sale or delivery on a regular basis to wholesalers, marketing organisations or at markets.

#### MINOR GROUP 611 MARKET GARDENERS AND CROP GROWERS

**Market Gardeners and Crop Growers** plan and carry out the necessary operations to grow and harvest field crops, to grow fruit and other tree and shrub crops, to grow garden vegetables and medicinal and other plants and to produce horticultural and horticultural nursery products for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

#### UNIT GROUP 6111 FIELD CROP GROWERS

**Field Crop Growers** plan and carry out the necessary operations to grow and harvest various types of field crops such as oil palm, rubber, coconut, tapioca, sugar cane and paddy for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

#### Tasks include:

- determining the kinds and amounts of crops to be grown;
- purchasing seeds, fertiliser and other supplies;
- performing operations such as soil preparation, sowing, planting, loosening soil and harvest of crops;
- storing and carrying out some basic processing of produce;
- maintaining machinery and other equipment on the farm;
- controlling weeds, pests and diseases by using herbicides and pesticides;
- promoting and marketing products, arranging the sale, purchase and transport of products and supplies, as well as maintaining and evaluating records of farm activities and transactions;
- training workers on the farm, supervising maintenance duties and health and safety precautions; and
- performing related tasks.

**Example of the occupations classified here:** *(refer to index; unit group 6111)*

6111-01	Grower, Field Crop
6111-02	Grower, Rubber
6111-03	Grower, Coconut
6111-04	Grower, Oil Palm

## UNIT GROUP 6112 SHRUB CROP GROWERS

**Shrub Crop Growers** plan and carry out the necessary operations to grow and harvest shrubs for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

### Tasks include:

- a) determining the kinds and amounts of crops to be grown;
- b) purchasing seeds, fertiliser and other supplies;
- c) performing operations such as soil preparation, sowing, planting, loosening soil, fertilising and harvest of crops;
- d) maintaining the nursery, greenhouse, machinery and other equipment;
- e) controlling weeds, pests and diseases with the use of herbicides and pesticides;
- f) promoting and marketing products, arranging the sale, purchase and transport of products and supplies, as well as maintaining and evaluating records of farm activities and transactions;
- g) training workers on the farm, supervising maintenance duties and health and safety precautions; and
- h) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 6112\)](#)

6112-01	Grower, Shrub Trees
6112-02	Grower, Coco
6112-03	Grower, Tea
6112-04	Grower, Pomegranate

## UNIT GROUP 6113 GARDENERS, HORTICULTURAL AND NURSERY GROWERS

**Gardeners, Horticultural and Nursery Growers** plan and carry out the necessary operations to grow vegetables by intensive cultivation techniques, to cultivate trees, shrubs, flowers and other plants and to produce saplings, bulbs and seeds for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

### Tasks include:

- a) determining the kinds and amounts of vegetables, horticultural and nursery products to be grown;
- b) performing operations such as soil preparation, sowing, planting and harvest of crops;
- c) producing saplings, bulbs and seeds;
- d) cultivating flowers, trees, shrubs and other plants in parks or public or private gardens;
- e) growing plants for exhibition or medicinal purposes;
- f) protecting and maintaining the green house, machinery and equipment in the nursery;
- g) delivering or marketing products;
- h) storing and carrying out some processing of produce; and
- i) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 6113\)](#)

6113-01	Gardener
6113-02	Flower Grower
6113-03	Horticulturist
6113-04	Hydroponic Grower

#### UNIT GROUP 6114 MIXED CROP GROWERS

**Mixed Crop Growers** plan and carry out the necessary operations to grow and harvest specific combinations of field crops, field vegetables, tree and shrub crops, garden, horticultural and nursery products, for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

**Tasks include:**

- a) determining kinds and amounts of crops to be grown;
- b) purchasing seeds, fertiliser and other supplies;
- c) performing operations such as soil preparation, sowing, planting, tending and harvest of crops;
- d) growing vegetables by intensive cultivation and producing saplings, bulbs and seeds;
- e) storing and carrying out some processing of produce;
- f) controlling weeds, pests and diseases by using herbicides and pesticides;
- g) promoting and marketing products, arranging the sale, purchase and transport of products and supplies, as well as maintaining and evaluating records of farm activities and transactions;
- h) training workers on the farm, supervising maintenance duties and health and safety precautions;
- i) maintaining buildings, machinery and other equipment;
- j) delivering or marketing products; and
- k) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 6114](#))

6114-01	Mixed Crop Grower
6114-02	Mixed Crop Farmer
6114-03	Skilled Farm Worker (Mixed Crops)

#### UNIT GROUP 6115 VEGETABLE GROWERS

**Vegetable Growers** plan and carry out the necessary operations to grow and harvest various types of vegetables for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

**Tasks include:**

- a) determining the types and amounts of crops to be grown;
- b) purchasing seeds, fertiliser and other supplies;
- c) performing operations such as soil preparation, sowing, planting, tending and harvest of crops;
- d) growing vegetables by intensive cultivation and producing saplings, bulbs and seeds;
- e) storing and carrying out some processing of produce;
- f) delivering or marketing products; and
- g) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 6115](#))

6115-01	Vegetable Grower
6115-02	Lentil Grower
6115-03	Black Pepper Farmer
6115-04	Chilli Farmer

## MINOR GROUP 612 ANIMAL PRODUCERS

**Animal Producers** plan and perform operations to breed and raise domesticated animals, poultry, insects and non-domesticated animals for the production of meat, dairy products, honey, skins, textiles and other products, or for use as working, sporting or recreational animals, for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

### UNIT GROUP 6121 LIVESTOCK AND DAIRY PRODUCERS

**Livestock and Dairy Producers** plan and carry out the necessary operations to breed, raise and tend livestock such as cattle, sheep, pigs, goats, horses, dogs and cats to be used as working, sporting or pet animals as well as to obtain meat, milk, wool, skin and other products for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

**Tasks include:**

- a) determining the kinds and number of livestock and livestock products to be produced;
- b) purchasing animals, producing and purchasing fodder and other supplies;
- c) breeding, raising and tending livestock;
- d) milking animals;
- e) shearing coats to obtain wool;
- f) preparing animals or animal products for the market;
- g) storing and carrying out some processing of livestock products;
- h) carrying out the work related to livestock reproduction such as breeding, artificial insemination, and helping with animal births;
- i) maintaining buildings, machinery and farm equipment;
- j) delivering or marketing farm products; and
- k) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 6121](#))

6121-01	Breeder, Livestock
6121-02	Breeder, Dairy
6121-03	Skilled Farm Worker, Mixed Animal Husbandry
6121-04	Producer, Dairy

### UNIT GROUP 6122 POULTRY PRODUCERS

**Poultry Producers** plan and carry out the necessary operations to breed, raise and tend poultry to produce eggs, meat, nest or feathers and breeding stock for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

**Tasks include:**

- a) determining the kinds and number of poultry and the products to be produced;
- b) monitoring market activity, planning and coordinating production accordingly, and maintaining and evaluating records of farming activities;
- c) monitoring and examining poultry to detect illness, injury or infection, and to check physical condition such as rate of weight gain, and removing weak, ill and dead poultry from the flock;
- d) vaccinating livestock through drinking water, injection or dusting of air;
- e) collecting, storing, packing and shipping products for sale on the market;
- f) collecting, storing and packing eggs for sale on the market;
- g) determining the sex of chicks and facilitating breeding, artificial insemination and hatching of eggs;

- h) training and supervising workers on poultry production procedures, maintenance duties, and safety and health precautions;
- i) storing and carrying out some processing of livestock products;
- j) delivering or marketing farm products; and
- k) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 6122)*

6122-01	Farmer, Goose
6122-02	Farmer, Chicken
6122-03	Farmer, Bird
6122-04	Farmer, Duck

#### UNIT GROUP 6123 APIARISTS AND SERICULTURISTS

**Apiarists and Sericulturists** plan and carry out the necessary operation to breed, raise and tend insects such as honey bees, silkworms and other species to produce honey, beeswax, silk and other products for sale or delivery on a regular basis to wholesalers, marketing organisations or at markets.

**Tasks include:**

- a) monitoring market activity, planning and coordinating production accordingly, monitoring market activity by regulations, determining the types and amounts of insect products to produce, planning and coordinating production accordingly;
- b) purchasing and rearing insects or buying food and other supplies;
- c) breeding, raising and tending insects, and collecting their products;
- d) arranging the sale, purchase and transport of stock; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 6123)*

6123-01	Apiarist
6123-02	Sericulturist
6123-03	Farmer, Leech
6123-04	Farmer, Worm

#### UNIT GROUP 6129 ANIMAL PRODUCERS AND RELATED WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Animal Producers and Related Workers Not Elsewhere Classified in Minor Group 612: Animal Producers.

**Tasks include:**

- a) buying or setting up the necessary buildings, open or sheltered spaces, equipment, etc and maintaining them;
- b) determining the kinds and number of animals to be raised;
- c) breeding, raising, feeding and tending animals;
- d) storing and carrying out some processing of the products; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 6129)*

6129-01	Inseminator, Poultry
6129-02	Vaccinator
6129-03	Worker, Incubator
6129-04	Fur Farmer (Non-Domesticated Animals)

## MINOR GROUP 613 MIXED CROP AND ANIMAL PRODUCERS

**Mixed Crop and Animal Producers** plan and carry out the necessary operations for mixed farming of the kind that produces a combination of both crops and animals and related products, for delivery or sale on a regular basis to wholesale buyers, marketing organisations or at markets.

### UNIT GROUP 6131 MIXED CROP AND ANIMAL PRODUCERS

**Mixed Crop and Animal Producers** plan and carry out the necessary operations for mixed farming of the kind that produces a combination of both crops and animals and related products, for delivery or sale on a regular basis to wholesale buyers, marketing organisations or at markets.

#### Tasks include:

- a) determining the kinds and amounts of crops to be grown;
- b) controlling weeds, pests and diseases with the use of herbicides and pesticides;
- c) purchasing seeds, fertiliser and other supplies;
- d) storing and carrying out some processing of farm products;
- e) performing operations such as soil preparation, sowing, planting, loosening soil and harvest of crops;
- f) storing and carrying out some basic processing of farm products;
- g) determining the kinds, amounts of livestock and livestock products to be produced;
- h) maintaining machinery and other equipment in the field;
- i) delivering or marketing farm products; and
- j) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 6131](#))

6131-01	Mixed Product Farmer (Crops and Husbandry)
6131-02	Farmer (Mixed Farming)
6131-03	Skilled Farm Worker (Mixed Farming)



## SUB-MAJOR 62 MARKET-ORIENTED SKILLED FORESTRY, FISHERY AND HUNTING WORKERS

**Market-Oriented Skilled Forestry, Fishery and Hunting Workers** plan, organise and perform operations to cultivate, conserve and exploit natural and plantation forests, breed and raise fish, harvest and catch fish, and hunt and trap animals for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

### MINOR GROUP 621 SKILLED FORESTRY AND RELATED WORKERS

**Skilled Forestry and Related Workers** plan and carry out the necessary operations to cultivate, conserve and exploit forests for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

#### UNIT GROUP 6211 SKILLED FORESTRY AND RELATED WORKERS

**Skilled Forestry and Related Workers** carry out the necessary operations to cultivate, conserve and exploit forests for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

##### **Tasks include:**

- a) establishing and tending the forest area;
- b) locating trees to be felled and estimating the volume of timber;
- c) trimming, topping and felling trees and sawing them into logs;
- d) shaping rough wooden products from logs at felling site;
- e) grading logs;
- f) supervising logging work, conducting block surveys, grid lines, measurement, topography and tree census;
- g) teaching trainees to handle and maintain heavy machinery for logging, technique to build timber roads and to extract timber from the jungle;
- h) regulating forest development work, operations, enforcement of factories and encroachment of recreational forests; and
- i) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 6211\)](#)

6211-01	Forest Guard, Grade G11
6211-02	Junior Wildlife Assistant, Grade G11
6211-03	Logger
6211-04	Tree Feller

## **MINOR GROUP 622 SKILLED FISHERY WORKERS, HUNTERS AND TRAPPERS**

**Skilled Fishery Workers, Hunters and Trappers** catch, breed and cultivate fish and other forms of aquatic life or hunt and trap animals for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

### **UNIT GROUP 6221 FISHERY AND AQUACULTURE PRODUCERS**

**Fishery and Aquaculture Producers** plan and carry out the necessary operations to breed and cultivate fish, mussels, oysters and other forms of aquatic life and produce aquatic products such as fishballs, crackers, otak-otak, shells, sea cucumber, dried aquatic products and the cultivation of ornamental fish for sale or delivery on a regular basis to wholesalers, marketing organisations or at markets.

#### **Tasks include:**

- a) planning and managing the operation of hatcheries taking into consideration environmental and market factors;
- b) breeding, raising and tending fish and collecting its derivatives;
- c) monitoring and maintaining water quality to maintain health standards and optimal growth conditions;
- d) identifying and controlling against toxins and environmental diseases;
- e) directing and supervising catching, grading and packaging of fish, prawns, oysters and stock of other aquatic life forms;
- f) preparing fish and other products for shipment;
- g) cleaning, freezing, pickling or salting aquatic products;
- h) maintaining ponds, cages, water temperature and equipment;
- i) delivering or marketing products; and
- j) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 6221)*

6221-01	Farmer, Fishery Livestock
6221-02	Farmer, Fishery
6221-03	Pearl Culturist
6221-04	Skilled Fish Farm Worker

### **UNIT GROUP 6222 SKILLED INLAND AND COASTAL WATERS FISHERY WORKERS**

**Skilled Inland and Coastal Waters Fishery Workers**, alone or as crewmen of fishing boats, catch fish or gather other forms of aquatic life in inland or coastal waters for sale or delivery on a regular basis to wholesalers, marketing organisations or at markets.

#### **Tasks include:**

- a) preparing and repairing nets and other fishing gear and equipment;
- b) operating and maintaining the fishing boat to, from and at fishing grounds;
- c) baiting, setting and hauling in fishing gear;
- d) gathering different forms of aquatic life from shores and shallow waters;
- e) cleaning, freezing or salting haul;
- f) diving to gather oysters used for seed-pearl cultivation;
- g) delivering or marketing products; and
- h) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 6222)*

6222-01	Fishery Worker, Kelong
6222-02	Fishery Worker, Inland
6222-03	Fishery Worker, Coastal
6222-04	Diver, Pearl

#### UNIT GROUP 6223 SKILLED DEEP-SEA FISHERY WORKERS

**Skilled Deep-Sea Fishery Workers**, as crewmen of fishing boats, catch deep-sea fish for sale or delivery on a regular basis to wholesalers, marketing organisations or at markets.

**Tasks include:**

- a) preparing and repairing nets and other fishing gear and equipment;
- b) operating and maintaining fishing vessels to, from and at fishing grounds;
- c) baiting, setting and hauling in fishing gear;
- d) cleaning, freezing, pickling or salting haul on- or offshore;
- e) delivering or marketing the haul; and
- f) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 6223)*

6223-01	Fishery Worker, Deep-Sea
6223-02	Fisherman (Deep Sea)
6223-03	Trawler Crewman

#### UNIT GROUP 6224 HUNTERS AND TRAPPERS

**Hunters and Trappers** catch and kill mammals, birds or reptiles mainly to obtain meat, skin, feathers and other products for sale or delivery on a regular basis to wholesale buyers, marketing organisations or at markets.

**Tasks include:**

- a) determining the types of mammals, birds or reptiles to hunt or trap;
- b) setting traps to catch mammals, birds or reptiles;
- c) killing trapped or free mammals, birds or reptiles with firearms or other weapons;
- d) skinning and processing killed mammals, birds or reptiles to obtain desired products for sale or delivery;
- e) delivering or selling trapped live mammals, birds or reptiles;
- f) repairing and maintaining equipment; and
- g) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 6224)*

6224-01	Hunter
6224-02	Trapper
6224-03	Fur Trapper
6224-04	Whale Hunter

## SUB-MAJOR 63 SUBSISTENCE FARMERS, FISHERMEN, HUNTERS AND GATHERERS

**Subsistence Farmers, Fishermen, Hunters and Gatherers** grow and harvest field or tree and shrub crops, vegetables and fruit, gather wild fruit and medicinal and other plants, hunt or trap animals, catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum cash income for themselves and their households.

### MINOR GROUP 631 SUBSISTENCE CROP FARMERS

**Subsistence Crop Farmers** grow and harvest field or tree and shrub crops, vegetables and fruit in order to provide food, shelter and a minimum cash income for themselves and their households.

#### UNIT GROUP 6311 **SUBSISTENCE CROP FARMERS**

**Subsistence Crop Farmers** grow and harvest field or tree and shrub crops, vegetables and fruit in order to provide food, shelter and a minimum cash income for themselves and their households.

##### Tasks include:

- a) determining the kinds and amounts of crops to be grown;
- b) purchasing seeds, fertiliser and other supplies;
- c) performing operations such as soil preparation, sowing, planting, loosening soil and harvesting crops;
- d) growing vegetables, fruit and shrubs, and other plants;
- e) selling some products at local markets; and
- f) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 6311](#))

6311-01	Subsistence Crop Grower
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### MINOR GROUP 632 SUBSISTENCE LIVESTOCK FARMERS

**Subsistence Livestock Farmers** breed, raise and tend livestock in order to provide food, shelter and a minimum cash income for themselves and their households.

#### UNIT GROUP 6321 **SUBSISTENCE LIVESTOCK FARMERS**

**Subsistence Livestock Farmers** breed, raise and tend livestock in order to provide food, shelter and a minimum cash income for themselves and their households.

##### Tasks include:

- a) determining the kinds and amounts of livestock and livestock products to be produced;
- b) purchasing animals, producing and purchasing fodder and other supplies;
- c) breeding, raising and tending livestock;
- d) milking, slaughtering and skinning animals, and preparing animals or animal products for the market;
- e) storing and carrying out some basic processing of livestock products;
- f) delivering or marketing farm products; and
- g) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 6321](#))

6321-01	Subsistence Livestock Farmer
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### **MINOR GROUP 633 SUBSISTENCE MIXED CROP AND LIVESTOCK FARMERS**

**Subsistence Mixed Crop and Livestock Farmers** grow and harvest field or tree and shrub crops and various mixed crops, vegetables and wild fruit, medicinal and other plants, hunt or trap animals or catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum cash income for themselves and their households.

#### **UNIT GROUP 6331 SUBSISTENCE MIXED CROP AND LIVESTOCK FARMERS**

**Subsistence Mixed Crop and Livestock Farmers** grow and harvest field or tree and shrub crops and various mixed crops, vegetables and wild fruit, medicinal and other plants, hunt or trap animals or catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum cash income for themselves and their households.

##### **Tasks include:**

- a) determining the kinds and amounts of livestock and livestock products to be produced and amounts of crops to be grown;
- b) purchasing animals, producing and purchasing fodder and other supplies;
- c) purchasing seeds, fertiliser and other supplies;
- d) performing operations such as soil preparation, sowing, planting, loosening soil and harvesting crops;
- e) breeding, raising and tending livestock;
- f) milking, slaughtering and skinning animals, and preparing animals or animal products for the market;
- g) storing and carrying out some basic processing of the crop and livestock products;
- h) delivering or marketing farm products;
- i) selling some products at local markets; and
- j) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 6331](#))

6331-01	Subsistence Mixed Crop and Livestock Farmer
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### **MINOR GROUP 634 SUBSISTENCE FISHERMEN, HUNTERS, TRAPPERS AND GATHERERS**

**Subsistence Fishermen, Hunters, Trappers and Gatherers** gather wild fruit, medicinal and other plants, and hunt and trap animals, and catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum cash income for themselves and their households.

#### **UNIT GROUP 6341 SUBSISTENCE FISHERMEN, HUNTERS, TRAPPERS AND GATHERERS**

**Subsistence Fishermen, Hunters, Trappers and Gatherers** gather wild fruit, medicinal and other plants, and hunt and trap animals, and catch fish and gather various forms of aquatic life in order to provide food, shelter and a minimum cash income for themselves and their households.

##### **Tasks include:**

- a) gathering wild fruit, roots, medicinal and other plants;
- b) hunting or trapping animals mainly to obtain meat, milk, hair, skin or other products;
- c) catching fish and gathering a various forms of other aquatic life;
- d) gathering and picking various other products;
- e) selling gathered products and preparing them for the local market; and
- f) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 6341](#))

6341-01	Collector, <i>Petai</i>
6341-02	Collector, Resin
6341-03	Gatherer, Shellfish
6341-04	Collector, Bird's Nest





# 7

## CRAFT AND RELATED TRADES WORKERS



## **71 BUILDING AND RELATED TRADES WORKERS (EXCLUDING ELECTRICIANS)**

### **711 BUILDING FRAME AND RELATED TRADES WORKERS**

- 7111 House Builders
- 7112 Bricklayers and Related Workers
- 7113 Stonemasons, Stone Cutters, Splitters and Carvers
- 7114 Concrete Placers, Concrete Finishers and Related Workers
- 7115 Carpenters and Joiners
- 7119 Building Frame and Related Trades Workers Not Elsewhere Classified

### **712 BUILDING FINISHERS AND RELATED TRADES WORKERS**

- 7121 Roofers
- 7122 Floor Layers and Tile Setters
- 7123 Plasterers
- 7124 Insulation Workers
- 7125 Glaziers
- 7126 Plumbers and Pipe Fitters
- 7127 Air Conditioning and Refrigeration Mechanics

### **713 PAINTERS, BUILDING STRUCTURE CLEANERS AND RELATED TRADES WORKERS**

- 7131 Painters and Related Workers
- 7132 Spray Painters and Varnishers
- 7133 Building Structure Cleaners

## **72 METAL, MACHINERY AND RELATED TRADES WORKERS**

### **721 SHEET AND STRUCTURAL METAL WORKERS, MOULDERS AND WELDERS AND RELATED TRADES WORKERS**

- 7211 Metal Moulders and Coremakers
- 7212 Welders and Flame Cutters
- 7213 Sheet-Metal Workers
- 7214 Structural-Metal Preparers and Erectors
- 7215 Riggers and Cable Splicers

### **722 BLACKSMITHS, TOOLMAKERS AND RELATED TRADES WORKERS**

- 7221 Blacksmiths, Hammersmiths and Forging-Press Workers
- 7222 Toolmakers and Related Workers
- 7223 Metal Working Machine Tool Setters and Operators
- 7224 Metal Polishers, Wheel Grinders and Tool Sharpeners



## **723 MACHINERY MECHANICS AND REPAIRERS**

- 7231 Motor Vehicle Mechanics and Repairers
- 7232 Aircraft Engine Mechanics and Repairers
- 7233 Agricultural and Industrial Machinery Mechanics and Repairers
- 7234 Bicycle and Related Repairers
- 7239 Machinery Mechanics and Repairers Not Elsewhere Classified

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## **73 HANDICRAFT AND PRINTING WORKERS**

### **731 HANDICRAFT WORKERS**

- 7311 Precision Instrument Makers and Repairers
- 7312 Musical Instrument Makers and Tuners
- 7313 Jewellery and Precious Metal Workers
- 7314 Potters and Related Workers
- 7315 Glass Makers, Cutters, Grinders and Finishers
- 7316 Sign Writers, Decorative Painters, Engravers and Etchers
- 7317 Handicraft Workers in Wood, Basketry and Related Materials
- 7318 Handicraft Workers in Textile, Leather and Related Materials
- 7319 Handicraft Workers Not Elsewhere Classified

### **732 PRINTING TRADES WORKERS**

- 7321 Pre-press Workers
- 7322 Printers
- 7323 Print Finishing and Binding Workers
- 7324 Printing and Photo Engravers and Etchers

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## **74 ELECTRICAL AND ELECTRONIC TRADES WORKERS**

### **741 ELECTRICAL EQUIPMENT INSTALLERS AND REPAIRERS**

- 7411 Building and Related Electricians
- 7412 Electrical Mechanics and Fitters
- 7413 Electrical Line Installers and Repairers

### **742 ELECTRONICS AND TELECOMMUNICATIONS INSTALLERS AND REPAIRERS**

- 7421 Electronics Mechanics and Servicers
- 7422 Information and Communications Technology Installers and Servicers

## **75 FOOD PROCESSING AND RELATED WORKERS**

### **751 FOOD PROCESSING AND RELATED WORKERS**

- 7511 Meat and Fish Processing Workers and Related Food Preparers
- 7512 Bakers, Pastry and Pasta Cooks, and Confectionery Makers
- 7513 Dairy-Product Makers
- 7514 Fruit, Vegetable and Related Preservers
- 7515 Food and Beverage Tasters and Graders
- 7516 Tobacco Preparers and Tobacco Products Makers

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## **76 OTHER CRAFT WORKERS**

### **761 WOOD TREATERS, CABINET-MAKERS AND RELATED TRADES WORKERS**

- 7611 Wood Treaters
- 7612 Cabinet-Makers and Related Workers
- 7613 Woodworking-Machine Tool Setters and Operators

### **762 GARMENT AND RELATED WORKERS**

- 7621 Tailors, Dressmakers, Furriers and Hatters
- 7622 Garment and Related Pattern-Makers and Cutters
- 7623 Shoemakers and Related Workers
- 7624 Upholsterers and Related Workers
- 7625 Pelt Dressers, Tanners and Fellmongers

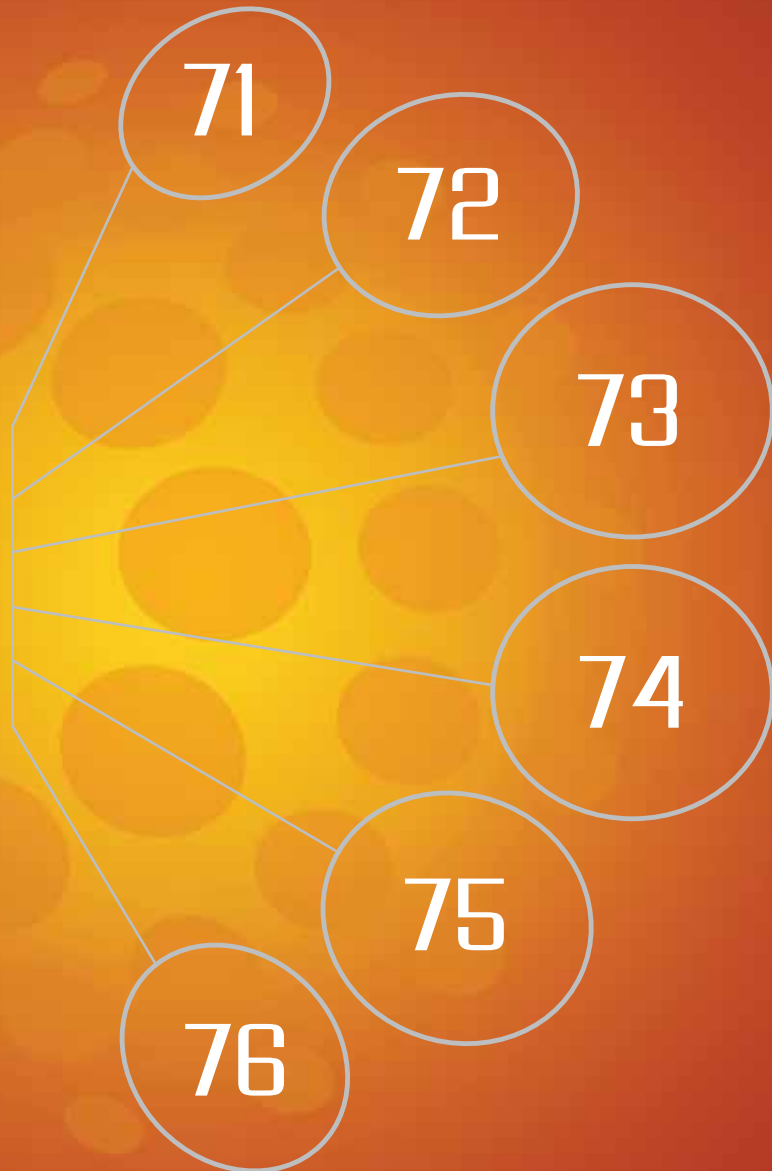
### **763 OTHER CRAFT AND RELATED WORKERS**

- 7631 Underwater Divers
- 7632 Shotfirers and Blasters
- 7633 Product Graders and Testers (Excluding Foods and Beverages)
- 7634 Fumigators and Pest and Weed Controllers
- 7639 Other Related Craft Workers Not Elsewhere Classified





SUB-MAJOR GROUP



- 71. BUILDING AND RELATED TRADES WORKERS (EXCLUDING ELECTRICIANS)
- 72. METAL, MACHINERY AND RELATED TRADES WORKERS
- 73. HANDICRAFT AND PRINTING WORKERS
- 74. ELECTRICAL AND ELECTRONIC TRADES WORKERS
- 75. FOOD PROCESSING AND RELATED WORKERS
- 76. OTHER CRAFT WORKERS



# MAJOR GROUP 7 CRAFT AND RELATED TRADES WORKERS

## Description

Apply their specific knowledge and skills in the fields of mining and construction, metal forming, and erect metal structures, make, fit, maintain and repair machinery, equipment or tools, carry out printing work as well as produce or process foodstuffs, textiles, or wooden, metal and other articles including handicraft goods.

The work is carried out by hand or by hand-powered and other tools which are used to reduce the amount of physical effort and time required for specific tasks, as well as to improve the quality of the products. The tasks call for an understanding of all stages of the production process, the materials and tools used, and the nature and purpose of the final product

## Skill Level

Most occupations in this major group require skills at the second level

### SUB MAJOR 71 BUILDING AND RELATED TRADES WORKERS (EXCLUDING ELECTRICIANS)

**Building and Related Trades Workers (Excluding Technician)** construct, maintain and repair buildings, erect and repair foundations, walls and structures of brick, stone and similar materials, shape and finish stone for building and other purposes.

The work is carried out by hand and by hand-powered and other tools which are used to reduce the amount of physical effort and time required for specific tasks, as well as to improve the quality of the products. The tasks call for an understanding of the work organisation, the materials and tools used, and the nature and purpose of the final product.

### MINOR GROUP 711 BUILDING FRAME AND RELATED TRADES WORKERS

**Building Frame and Related Trades Workers** construct, maintain and repair buildings, erect and repair foundations, walls and structures of brick, stone and similar materials, shape and finish stone for building and other purposes, and perform miscellaneous building construction and maintenance tasks.

### UNIT GROUP 7111 HOUSE BUILDERS

**House Builders** erect, maintain and repair houses and similar small buildings using either traditional or modern techniques and materials.

#### Tasks include:

- preparing the ground for erecting a building or other structures;
- erecting structures to support the roof and building, and covering walls with appropriate materials;
- fixing rafters to the roof and covering with roofing material;
- levelling the floor to make it smooth and serviceable;
- maintaining and repairing existing structures;
- arranging for specialised work such as bricklaying, painting, plumbing and electrical wiring to be done by subcontractors; and
- performing related tasks.

Examples of the occupations classified here: ([refer to index; unit group 7111](#))

7111-01	House Builder
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## UNIT GROUP 7112 BRICKLAYERS AND RELATED WORKERS

**Bricklayers and Related Workers** lay bricks, pre-cut stones and other types of building blocks to construct and repair walls, partitions, arches and other structures.

### Tasks include:

- a) laying stone, brick and similar building blocks to construct or repair walls, partitions, fireplaces and other structures such as smokestacks, furnaces, converters, kilns and ovens, piers and abutments;
- b) laying footpaths, kerbs and pavements;
- c) laying bricks or other masonry to build patios, garden walls and other decorative installations; and
- d) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7112\)](#)

7112-01	Bricklayer
7112-02	Stonemason
7112-03	Firebrick Layer
7112-04	Paviour

## UNIT GROUP 7113 STONEMASONS, STONE CUTTERS, SPLITTERS AND CARVERS

**Stonemasons, Stone Cutters, Splitters and Carvers** cut and shape hard and soft stone blocks and slabs for the construction and maintenance of stone structures and monumental masonry, and carve designs and figures in stone.

### Tasks include:

- a) driving wedges into quarried stone to break it into slabs or blocks;
- b) selecting and grading slabs and blocks of granite, marble and other stone;
- c) cutting, shaping and finishing building and monumental stone such as granite or marble by hand or using hand-powered tools;
- d) making patterns and marking shapes on stone for subsequent sawing, planing, drilling and other dressing and cutting operations;
- e) cutting and carving characters, figures or designs on stone blocks used for monuments or memorials;
- f) setting stone in the erection of monuments and memorials;
- g) carrying out inspection, servicing and maintenance (based on their respective fields or specialisation);
- h) repairing and replacing stonework on old buildings, churches and monuments; and
- i) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7113\)](#)

7113-01	Tradesman K3 – Mason, Grade R9
7113-02	Splitter, Stone
7113-03	Stone Lathe Worker
7113-04	Cutter, Stone

## UNIT GROUP 7114 CONCRETE PLACERS, CONCRETE FINISHERS AND RELATED WORKERS

**Concrete Placers, Concrete Finishers and Related Workers** erect reinforced concrete frameworks and structures, make forms for moulding concrete, reinforce concrete surfaces, cement openings in walls or casings for wells, finish and repair cement surfaces and carry out terrazzo work.

### Tasks include:

- a) constructing and repairing reinforced concrete floors, walls, tanks, silos and other concrete structures;
- b) making shuttering or assembling prefabricated forms for moulding concrete;
- c) cementing openings in walls or casings for wells;
- d) finishing and smoothing surfaces of concrete structures;
- e) applying a durable, smooth surfacing composed of cement, sand pigment and marble particles to floors, known as a terrazzo finish; and
- f) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7114\)](#)

7114-01	Reinforced Concrete Worker
7114-02	Shutterer, Concrete Moulding
7114-03	Shutterer, Concrete
7114-04	Worker, Iron Reinforcing

## UNIT GROUP 7115 CARPENTERS AND JOINERS

**Carpenters and Joiners** cut, shape, assemble, erect, maintain and repair various types of wooden structures and fittings.

### Tasks include:

- a) making, altering and repairing structural and other woodwork at a workbench and on a construction site;
- b) fitting, assembling and altering internal and external fixtures of buildings such as walls, doors, door and window frames, facings and panelling;
- c) making, repairing and fitting props for theatrical performances, motion picture or television productions;
- d) constructing, assembling, altering and repairing wooden fixtures and fittings in train coaches, aircraft, ships, boats, floats and other vehicles; and
- e) carrying out inspection, servicing and maintenance work (based on field or specialisation); and
- f) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7115\)](#)

7115-01	Tradesman K3 – Carpenter, Grade R9
7115-02	Tradesman K3 – Joiner, Grade R9
7115-03	Carpenter
7115-04	Carpenter, Construction

#### UNIT GROUP 7119 BUILDING FRAME AND RELATED TRADES WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Building Frame and Related Trades Workers Not Elsewhere Classified in Minor Group 711: Building Frame and Related Trades Workers.

**Tasks include:**

- a) performing miscellaneous construction and building maintenance work on structures such as office buildings, apartments, factories and similar establishments to keep them in good condition;
- b) erecting temporary metal or wooden scaffolding on building sites;
- c) demolishing buildings and other structures; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7119)*

7119-01	Worker, Building Maintenance
7119-02	Pipe Layer
7119-03	Drain Layer
7119-04	Scaffolder

#### MINOR GROUP 712 BUILDING FINISHERS AND RELATED TRADES WORKERS

**Building Finishers and Related Trades Workers** cover, apply or install, maintain and repair roofs, floors, walls, insulation systems, glass in windows or other frames, as well as plumbing, piping and electrical systems in buildings and other structures.

#### UNIT GROUP 7121 ROOFERS

**Roofers** build and repair roofs on all types of buildings using one or more kinds of materials.

**Tasks include:**

- a) studying drawings, specifications and construction sites to determine materials required;
- b) covering roof frameworks with slate and pre-fabricated tiles to cover pitched roofs;
- c) laying a waterproof shield and fixing metallic or synthetic materials to a building frame;
- d) sizing and cutting roofing materials to fit around edges, corners and protuberances such as chimneys;
- e) using natural materials such as thatching to provide roof coverings; and
- f) creating temporary structures such as scaffolding and ladders; and
- g) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7121)*

7121-01	Roofer
7121-02	Roofer, Thatch
7121-03	Roofer, Nipa
7121-04	Roofer, Asphalt

## UNIT GROUP 7122 FLOOR LAYERS AND TILE SETTERS

**Floor Layers and Tile Setters** install, maintain and repair flooring, and cover floors, walls and other surfaces with tiles or mosaic panels for decorative or other purposes.

### Tasks include:

- a) preparing floor areas for covering with a variety of materials;
- b) assembling carpet, tiles or other materials and laying them on floors according to design and other specifications;
- c) preparing wall areas for covering with tiles or other materials for decorative or other purposes;
- d) setting tiles and constructing and laying mosaic panels to walls, floors and other surfaces;
- e) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 7122](#))

7122-01	Installer, Tile
7122-02	Tile Setter
7122-03	Marble Setter
7122-04	Parquetry Worker

## UNIT GROUP 7123 PLASTERERS

**Plasterers** install, maintain and repair plasterboard in buildings, and apply decorative and protective coverings of plaster, cement and similar material to the interiors and exteriors of structures.

### Tasks include:

- a) applying one or more coats of plaster to interior walls and ceilings of buildings to produce a finished surface;
- b) measuring, marking and installing ornamental plaster panels, and casting and trimming ornamental plaster cornices;
- c) applying protective and decorative covering of cement, plaster and similar materials to exterior building surfaces;
- d) making and installing decorative plaster fixtures of fibrous plaster; and
- e) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 7123](#))

7123-01	Plasterer
7123-02	Plasterer, Stucco
7123-03	Plasterer, Fibrous
7123-04	Plasterer, Ornamental

## UNIT GROUP 7124 INSULATION WORKERS

**Insulation Workers** apply and repair insulating materials to buildings, boilers, pipes or refrigeration and air-conditioning equipment.

### Tasks include:

- a) cutting insulation material by size and shape;
- b) applying slabs and sheets of insulating or sound-absorbing materials to walls, floors

- and ceilings of buildings;
- c) blowing and packing insulating or sound-absorbing materials into cavities between walls, floors and ceilings of buildings with power-driven machines;
- d) examining plans, specifications and work sites to determine the type, quality and quantity of insulation material required;
- e) applying insulating materials to exposed surfaces of equipment such as boilers, pipes and tanks;
- f) insulating refrigeration and air-conditioning equipment; and
- g) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7124)*

7124-01	Insulation Worker
7124-02	Insulation Worker, Building
7124-03	Insulation Worker, Boiler
7124-04	Insulation Worker, Pipe

#### **UNIT GROUP 7125 GLAZIERS**

**Glaziers** measure, cut, finish, fit and install flat glass and mirrors.

**Tasks include:**

- a) selecting the type of glass to be used, cutting it to the right size and shape and installing it in windows, doors, showers and partitions of buildings;
- b) installing glass and mirrors in skylights, display cases, interior walls and ceilings;
- c) installing or replacing windscreens in vehicles or boats;
- d) creating decorative glass features such as glass walls, staircases, balustrades and stained-glass windows; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7125)*

7125-01	Glazier
7125-02	Glazier, Building
7125-03	Glazier, Vehicle
7125-04	Glazier, Leaded-Glass

#### **UNIT GROUP 7126 PLUMBERS AND PIPE FITTERS**

**Plumbers and Pipe Fitters** assemble, install, repair and maintain pipe systems, fittings and fixtures for water, gas, drainage, sewerage systems, and hydraulic and pneumatic equipment.

**Tasks include:**

- a) measuring, cutting, threading, bending, jointing, assembling, installing, maintaining and repairing pipes, fittings and fixtures of drainage, heating, water supply and sewerage systems;
- b) installing gas appliances, dishwashers and water heaters, sinks and toilets using hand and power tools;
- c) laying clay, concrete or cast-iron pipes in ditches to form sewers, drains or water mains, or for other purposes;
- d) inspecting, examining and testing installed systems and pipes using pressure gauge, hydrostatic testing, observation or other methods; and
- e) performing related tasks.



Examples of the occupations classified here: *(refer to index; unit group 7126)*

7126-01	Tradesman K1, Grade R17
7126-02	Tradesman K2, Grade R11
7126-04	Plumber
7126-05	Pipe Fitter

#### UNIT GROUP 7127 AIR CONDITIONING AND REFRIGERATION MECHANICS

**Air Conditioning and Refrigeration Mechanics** assemble, install, maintain and repair air conditioning and refrigeration systems and equipment.

**Tasks include:**

- a) interpreting blueprints, drawings or other specifications;
- b) assembling, installing and repairing components for air conditioning and refrigeration systems;
- c) connecting piping and equipment by bolting, riveting, welding or brazing;
- d) testing systems, diagnosing faults and performing routine maintenance or servicing;
- e) carrying out inspection, servicing and maintenance (based on field or specialisation such as civil, mechanical and electrical); and
- f) performing related tasks.

Examples of the occupations classified here: *(refer to index; unit group 7127)*

7127-01	Tradesman K2 - Refrigeration Mechanic, Grade R11
7127-02	Refrigeration Equipment Mechanic
7127-03	Air-Conditioning Equipment Mechanic

#### MINOR GROUP 713 PAINTERS, BUILDING STRUCTURE CLEANERS AND RELATED TRADES WORKERS

**Painters, Building Structure Cleaners and Related Trades Workers** prepare surfaces and apply paint and similar materials to buildings and other structures, vehicles or various manufactured articles. They cover interior walls and ceilings with wallpaper, clean chimneys and exterior surfaces of buildings and other structures.

#### UNIT GROUP 7131 PAINTERS AND RELATED WORKERS

**Painters and Related Workers** prepare surfaces of buildings and other structures for painting, apply protective and decorative coats of paint or similar materials, or cover interior walls and ceilings of buildings with wallpaper or other finishes.

**Tasks include:**

- a) cleaning and preparing walls and other surfaces of buildings for painting or wallpapering;
- b) selecting and preparing paints to required colours by mixing pigments and additives;
- c) applying or spraying paint, varnish, and similar materials to surfaces, fixtures and fittings of buildings;
- d) measuring and hanging wallpaper or other fabrics on interior walls and ceilings;
- e) applying paints, varnishes and stains to surfaces using brushes, rollers and sprays;
- f) carrying out inspection, servicing and maintenance (based on field or specialisation); and
- g) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7131)*

7131-01	Tradesman K3 - Painter and Writer, Grade R9
7131-02	Painter
7131-03	Painter, Glass
7131-04	Painter, Ceramics

#### **UNIT GROUP 7132    SPRAY PAINTERS AND VARNISHERS**

**Spray Painters and Varnishers** operate spray painting and varnishing equipment to apply protective coatings to manufactured items or structures.

**Tasks include:**

- a) preparing surfaces to be coated using a variety of methods to remove grease, dirt and rust;
- b) painting cars, buses, trucks and other vehicles, and applying varnish and other protective coatings;
- c) applying paint as well as protective coatings of enamel or varnish on metal, wooden and other manufactured products, usually with a hand-spraying device; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7132)*

7132-01	Spray Painter
7132-02	Spray Painter, Metal
7132-03	Spray Painter, Vehicles
7132-04	Varnisher

#### **UNIT GROUP 7133    BUILDING STRUCTURE CLEANERS**

**Building Structure Cleaners** clean exterior surfaces of buildings and other structures, and remove soot from chimneys.

**Tasks include:**

- a) cleaning exterior surfaces of stone, brick, metal or similar materials by means of chemicals, a jet of steam or sand applied under great pressure;
- b) removing soot from flues, chimneys and connecting pipes; and
- c) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7133)*

7133-01	Cleaner, Building Exteriors
7133-02	Sandblaster (Building Exteriors)
7133-03	Chimney Sweeper

## SUB-MAJOR 72 METAL, MACHINERY AND RELATED TRADES WORKERS

**Metal, Machinery and Related Trades Workers** cast, weld, forge and form metal, erect, maintain and repair heavy metal structures, install electrical wiring systems, fit, maintain and repair machinery including engines, vehicles, electrical and electronic equipment, or produce tools and various non-precious metal articles.

### MINOR GROUP 721 SHEET AND STRUCTURAL METAL WORKERS, MOULDERS AND WELDERS AND RELATED TRADES WORKERS

**Sheet and Structural Metal Workers, Moulders and Welders and Related Trades Workers** make moulds and cores for casting metal, weld and cut metal parts, make, install and repair articles of sheet metal, install, erect, maintain and repair heavy metal structures, tackle, cable cars and related equipment.

#### UNIT GROUP 7211 **METAL MOULDERS AND COREMAKERS**

**Metal Moulders and Coremakers** make moulds and cores for casting metal.

**Tasks include:**

- a) making moulds by hand or by using auxiliary machines on a bench for small metal castings, or on the foundry floor or in a pit for large castings;
- b) making cores for use in metal moulds;
- c) carrying out inspection, servicing and maintenance (based on field or specialisation); and
- d) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 7211](#))

7211-01	TradesmanK2 – Moulder, Grade R11
7211-02	Mould Maker
7211-03	Mould Repairer, Foundry
7211-04	Flooring Moulder, Foundry

#### UNIT GROUP 7212 **WELDERS AND FLAME CUTTERS**

**Welders and Flame Cutters** weld and cut metal parts using gas flame, or an electric arc and other sources of heat to melt and cut or to melt and fuse metal.

**Tasks include:**

- a) welding metal parts using gas flame, or an electric arc, thermite compound or other methods;
- b) operating resistance-welding machines; using a blowtorch to make and repair lead linings, pipes, floors and other lead fixtures;
- c) brazing metal parts together;
- d) cutting metal pieces using gas flame or an electric arc;
- e) joining metal parts by hand soldering; and
- f) carrying out inspection, servicing and maintenance (based on field or specialisation); and
- g) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 7212](#))

7212-01	Tradesman K2 - Welder (Actelene), Grade R11
7212-02	Tradesman K2 - Welder (Electric)
7212-03	Welder
7212-04	Flame Cutter

## UNIT GROUP 7213 SHEET-METAL WORKERS

**Sheet-Metal Workers** make, install and repair articles and parts of articles of sheet metal such as stainless steel, copper, tin, brass, aluminium, zinc or galvanised iron.

### Tasks include:

- a) marking sheet metal for cutting and shaping;
- b) making and repairing household utensils and other articles in tin, copper and light alloys, or ornamental articles and fittings;
- c) making and repairing boilers, tanks, vats and similar containers;
- d) installing and repairing sheet metal parts of vehicles and aircraft;
- e) carrying out inspection, servicing and maintenance (based on field or specialisation); and
- f) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7213)*

7213-01	Tradesman K2 – Sheet-Metal Worker, Grade R11
7213-02	Tradesman – Boilermaker, Grade R11
7213-03	Sheet-Metal Worker
7213-04	Coppersmith

## UNIT GROUP 7214 STRUCTURAL-METAL PREPARERS AND ERECTORS

**Structural-Metal Preparers and Erectors** assemble, erect and dismantle structural metal frames of buildings and other structures.

### Tasks include:

- a) marking metal framework as a guide when drilling, cutting and shaping for use in buildings, ships and other structures;
- b) drilling, cutting and shaping structural steel in a workshop;
- c) erecting steel frameworks for buildings, bridges and other constructions;
- d) assembling and erecting the framework and other metal parts of ship structures;
- e) shaping and fitting structural-steel plates of ships under construction or repair;
- f) riveting structural-metal members by hand, machine or pneumatic riveter; and
- g) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7214)*

7214-01	Structural Steel Worker
7214-02	Erector, Constructional Steel
7214-03	Ship Plater
7214-04	Riveter

## UNIT GROUP 7215 RIGGERS AND CABLE SPLICERS

**Riggers and Cable Splicers** assemble rigging gear to move and position equipment and structural components, or install and maintain cables, ropes and wires on construction sites, buildings or other structures.

### Tasks include:

- a) estimating the size, shape and weight of objects to be moved and deciding on the type of equipment to move them;

- b) installing and repairing cables, ropes, wires, pulleys and other tackle;
- c) joining, repairing and fitting attachments to wires, ropes and cables;
- d) working as members of crew erecting and repairing derricks for drilling water, gas and oil wells;
- e) lifting equipment in theatres, installing and maintaining communication towers, aerial cableways, funicular railways, ski lifts and similar infrastructure;
- f) carrying out inspection, servicing and maintenance (based on field or specialisation such as electrical); also supervising and monitoring development projects / new installation and maintenance (including upgrading work); and
- g) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7215\)](#)

7215-01	Tradesman K2 - Cable Splicer, Grade R11
7215-02	Tradesman K3 - Erector ( Electrical Equipment), Grade R9
7215-03	Rigger
7215-04	Rigger, Hoisting Equipment

#### **MINOR GROUP 722 BLACKSMITHS, TOOLMAKERS AND RELATED TRADES WORKERS**

**Blacksmiths, Toolmakers and Related Trades Workers** hammer and forge bars, rods or ingots of iron, steel and other metals to make and repair various kinds of tools, equipment and other articles, and polish and sharpen metal surfaces.

#### **UNIT GROUP 7221 BLACKSMITHS, HAMMERSMITHS AND FORGING-PRESS WORKERS**

**Blacksmiths, Hammersmiths and Forging-Press Workers** draw wire, hammer and forge bars, rods, ingots and plates of iron, steel or other metals to make and repair various kinds of tools, metal articles, pieces of equipment, agricultural and related implements.

##### **Tasks include:**

- a) carrying out inspection, servicing and maintenance (based on field or specialisation);
- b) heating metal in a forge furnace and manufacturing and repairing articles by drawing, bending, cutting, hammering metal on an anvil, punching, shearing, joining and hardening or tempering metal;
- c) shaping heated metal into forgings on power hammer equipped with open dies;
- d) operating closed die-drop hammer to forge metal articles;
- e) operating a power-press machine equipped with closed dies to forge metal articles; and
- f) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7221\)](#)

7221-01	Tradesman K2 – Blacksmith, Grade R11
7221-02	Blacksmith
7221-03	Hammersmith
7221-04	Worker, Drop Hammer

## UNIT GROUP 7222 TOOLMAKERS AND RELATED WORKERS

**Toolmakers and Related Workers** make and repair tools, sports guns, locks, dies, patterns and other metal articles, as well as make engines or machinery components, and parts thereof, using hand and machine tools to work metal to fine tolerances.

### Tasks include:

- a) making, maintaining and repairing dies, jigs, gauges and fixtures using hand tools and various kinds of machine tools;
- b) making engines or machinery components, and parts thereof;
- c) fitting and assembling parts to make and repair jigs, fixtures and gauges;
- d) repairing and modifying sports guns and other small firearms;
- e) making, fitting, assembling, repairing and installing lock parts and locks;
- f) making and repairing metal patterns used in making foundry moulds;
- g) laying out lines and reference points on metal stock to guide other workers who cut, turn, mill, grind or shape metal;
- h) carrying out inspection, servicing and maintenance (based on field or specialisation such as civil, mechanical and electrical); and
- i) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7222\)](#)

7222-01	Tradesman K1 – Toolmaker, Grade R17
7222-02	Tradesman K3 – Loopmaker, Grade R9
7222-03	Tool and Die Maker
7222-04	Pattern-Maker, Metal Foundry

## UNIT GROUP 7223 METAL WORKING MACHINE TOOL SETTERS AND OPERATORS

**Metal Working Machine Tool Setters and Operators** set and/or operate various working machine tools.

### Tasks include:

- a) setting one or more types of machine tools for metal production in the standard series;
- b) operating and monitoring metal working machines like lathes, milling, planing, boring, drilling, grinding or sharpening machines, including multi-purpose numerical control metal working machines;
- c) monitoring machine operation to detect defects or damage to the machine, and if necessary adjust the machine; and
- d) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7223\)](#)

7223-01	Metal Working Machine Adjuster
7223-02	Metal Working Machine Operator
7223-03	Metal Working Machine Setter
7223-04	Boring Machine Operator



#### UNIT GROUP 7224 METAL POLISHERS, WHEEL GRINDERS AND TOOL SHARPENERS

**Metal Polishers, Wheel Grinders and Tool Sharpeners** grind and polish metal surfaces and sharpen tools.

**Tasks include:**

- a) operating fixed or portable buffing and polishing machines;
- b) sharpening cutting tools and instruments using grinding wheels or mechanically operated grinding machines;
- c) repairing, adjusting and sharpening saw blades and metal teeth of cylinders in textile carding machines;
- d) grinding crank pins and crankshaft journals accurately to uniform diameters by special grinding machine and attachments; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7224)*

7224-01	Metal Grinder
7224-02	Cutting Instrument Sharpener
7224-03	Machine Tool Sharpener
7224-04	Saw Repairer

#### MINOR GROUP 723 MACHINERY MECHANICS AND REPAIRERS

**Machinery Mechanics and Repairers** fit, install, service and repair engines, vehicles, agricultural or industrial machinery and mechanical equipment.

#### UNIT GROUP 7231 MOTOR VEHICLE MECHANICS AND REPAIRERS

**Motor Vehicle Mechanics and Repairers** install, service and repair motor vehicles.

**Tasks include:**

- a) fitting, examining, adjusting, dismantling, rebuilding and replacing defective parts of motor vehicles;
- b) installing or adjusting motors and brakes, and adjusting steering or other parts of motor vehicles;
- c) being responsible for electrical systems and installation (repair and maintenance of equipment); and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7231)*

7231-01	Tradesman K2 - Mechanic (Motor Vehicle), Grade R11
7231-02	Tradesman K1 - Tool Mechanic, Grade R17
7231-03	Mechanic
7231-04	Earth-Moving Equipment Mechanic

## UNIT GROUP 7232 AIRCRAFT ENGINE MECHANICS AND REPAIRERS

**Aircraft Engine Mechanics and Repairers** repair and maintain the operating condition of aircraft engines, including helicopter engines.

### Tasks include:

- a) replacing or repairing worn, defective, or damaged components using hand tools, gauges and testing equipment;
- b) testing engine operation using test equipment such as ignition analyser, compression checker, distributor timer and ammeter to identify malfunction;
- c) listening to operating engine to detect and diagnose malfunctions, such as stuck or burned valves;
- d) reassembling engine and installing engine in aircraft;
- e) disassembling and inspecting engine parts, such as turbine blades and cylinders, for wear, warping, cracks and leaks; and
- f) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7232\)](#)

7232-01	Aircraft Engine Mechanic
7232-02	Aircraft Engine Fitter
7232-03	Aircraft Maintenance Mechanic
7232-04	Helicopter Mechanic

## UNIT GROUP 7233 AGRICULTURAL AND INDUSTRIAL MACHINERY MECHANICS AND REPAIRERS

**Agricultural and Industrial Machinery Mechanics and Repairers** repair, install, adjust or maintain agricultural and industrial production and processing machinery or refinery and pipeline distribution systems.

### Tasks include:

- a) fitting, examining, testing and servicing engines, agricultural or industrial machinery and mechanical equipment;
- b) replacing engine components;
- c) oiling and greasing engines and machinery;
- d) inspecting and testing new machinery and mechanical equipment for conformity with standards and specifications; and
- e) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7233\)](#)

7233-01	Machinery Mechanic
7233-02	Mining Machinery Mechanic
7233-03	Mechanic, Machine Tool
7233-04	Mechanic, Industrial Machinery

## UNIT GROUP 7234 BICYCLE AND RELATED REPAIRERS

**Bicycle and Related Repairers** install, maintain, service and repair mechanical and related equipment of bicycles, trishaws, baby carriages, wheelchairs and similar non-motorised transport.

**Tasks include:**

- a) installing, repairing and replacing equipment or accessories such as handlebars, footrests, lights and seats;
- b) aligning wheels;
- c) installing and adjusting speed and gear mechanisms;
- d) disassembling axle to repair, adjust and replace defective parts using hand tools;
- e) repairing holes in tyre tubes using scraper and patch;
- f) shaping replacement parts using bench grinder;
- g) assembling new bicycles;
- h) painting bicycle frames using spray gun or brush;
- i) welding together broken or cracked frames using oxyacetylene torch and welding rods; and
- j) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7234\)](#)

7234-01	Bicycle Repairer
7234-02	Trishaw Repairer
7234-03	Reel Repairer
7234-04	Bicycle Mechanic

## UNIT GROUP 7239 MACHINERY MECHANICS AND REPAIRERS NOT ELSEWHERE CLASSIFIED

**Machinery Mechanics and Repairers Not Elsewhere Classified** install, maintain, service and repair mechanical and related equipment for marine vessels, trains and the like.

**Tasks include:**

- a) installing, repairing and replacing equipment or accessories in marine vessels, trains and the like; and
- b) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7239\)](#)

7239-01	Marine Engine Mechanic
7239-02	Ship Mechanic
7239-03	Train Engine Fitter
7239-04	Train Engine Repairer

## SUB-MAJOR 73 **HANDICRAFT AND PRINTING WORKERS**

**Handicraft and Printing Workers** make and repair precision instruments, musical instruments, various articles such as jewellery, precious metalware, ceramics, porcelain and glassware including handicraft items made of wood, textile, leather or related materials, or they perform printing or book-binding tasks.

### MINOR GROUP 731 **HANDICRAFT WORKERS**

**Handicraft Workers** combine artistic and manual skills to design, make, repair, adjust, maintain and decorate precision instruments, musical instruments, jewellery and other precious metals, pottery and porcelain ware. They apply traditional and/or modern techniques to carve, mould, assemble, weave and decorate various glass, ceramic, textile, straw, stone, wood and leather articles.

### UNIT GROUP 7311 **PRECISION INSTRUMENT MAKERS AND REPAIRERS**

**Precision Instrument Makers and Repairers** make, repair and calibrate mechanical watches, clocks, nautical, meteorological, optical, surgical, dental, orthopaedic and other precision instruments and equipment.

**Tasks include:**

- a) making, adjusting and repairing mechanical watches and clocks;
- b) making, adjusting and repairing nautical and meteorological instruments and equipment;
- c) making, adjusting and repairing optical instruments;
- d) making, adjusting and repairing surgical instruments and other medical equipment;
- e) making and repairing medical, orthopaedic and dental appliances and prostheses;
- f) calibrating instruments using standard weights and measures and using hand tools to adjust and align parts and small balancing weights; and
- g) performing related tasks.

**Examples of the occupations classified here:** (*refer to index; unit group 7311*)

7311-01	Precision Instrument Maker
7311-02	Surgical Instrument Maker
7311-03	Scientific Instrument Maker
7311-04	Photographic Equipment Maker

### UNIT GROUP 7312 **MUSICAL INSTRUMENT MAKERS AND TUNERS**

**Musical Instrument Makers and Tuners** make, repair, adjust and restore musical instruments and tune them to the required pitch using hand or tools. They usually specialise in one type of instrument.

**Tasks include:**

- a) making and repairing accordions, stringed and wind instruments;
- b) building and repairing organ and making parts for organs;
- c) assembling and repairing pianos;
- d) tuning pianos and other instruments;
- e) making, assembling and repairing other musical instruments; and
- f) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7312\)](#)

7312-01	Musical Instrument Maker
7312-02	Musical Instrument Tuner
7312-03	Stringed Instrument Maker
7312-04	Piano Maker

#### **UNIT GROUP 7313 JEWELLERY AND PRECIOUS METAL WORKERS**

**Jewellery and Precious Metal Workers** design, fabricate, adjust, repair or appraise jewellery, ceremonial or religious items, gold, silver, other precious metals or gems. They cut, file, polish and set stones including gems and diamonds, and engrave designs on jewellery and precious metal articles. They cut and polish diamonds for industrial purposes.

**Tasks include:**

- a) casting jewellery and other non-ferrous metal articles by hand;
- b) making jewellery articles such as rings, brooches and bracelets;
- c) cutting and polishing gems and setting them in jewellery articles;
- d) making, remodelling and repairing precious metalware;
- e) rolling and hammering precious metals;
- f) engraving letters and designs on jewellery and precious metalware; and
- g) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7313\)](#)

7313-01	Jeweller
7313-02	Goldsmith
7313-03	Silversmith
7313-04	Pewtersmith

#### **UNIT GROUP 7314 POTTERS AND RELATED WORKERS**

**Potters and Related Workers** make pottery, porcelain ware, bricks and tiles.

**Tasks include:**

- a) making articles of pottery and porcelain;
- b) making clay or plaster of Paris moulds;
- c) forming articles on the potter's wheel with the hands, or using interior or exterior moulding shapes and shaping tools;
- d) forming articles by casting semi-liquid clay in plaster of Paris moulds;
- e) forming bricks and tiles into special shapes by hand;
- f) making articles by pressing plastic clay into moulds by hand;
- g) operating screw-press or hydraulic press to make products of clay dust;
- h) operating a machine which extrudes moist clay for further processing; and
- i) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7314\)](#)

7314-01	Potter
7314-02	Presser, Brick and Tile
7314-03	Modeller, Pottery and Porcelain
7314-04	Caster, Pottery and Porcelain

#### UNIT GROUP 7315 GLASS MAKERS, CUTTERS, GRINDERS AND FINISHERS

**Glass Makers, Cutters, Grinders and Finishers** blow, mould, press, roll and shape molten glass, and cut, grind and polish glass.

**Tasks include:**

- a) shaping molten glass by means of blowpipe, hand moulding, heating and bending;
- b) heating, moulding and pressing optical glass to make clear lenses;
- c) grinding and polishing clear lenses;
- d) grinding and bevelling edges of glass;
- e) cutting sheet glass with hand tools and sawing prisms and other shapes from optical glass blocks;
- f) assisting research officers in conducting research and development in the field of science related to the use of nuclear technology and technology connected to the tasks of designing fabrications and producing glass tools and equipment; and
- g) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7315\)](#)

7315-01	Glass Blower, Grade N17
7315-02	Glass Bender
7315-03	Glass Blower
7315-04	Glass Cutter

#### UNIT GROUP 7316 SIGN WRITERS, DECORATIVE PAINTERS, ENGRAVERS AND ETCHERS

**Sign Writers, Decorative Painters, Engravers and Etchers** design, illustrate and decorate silver, gold, steel or glass and other materials for personal, household use or for decorative purposes.

**Tasks include:**

- a) cutting and designing surfaces in a variety of shapes and sizes that yield a variety of decorations;
- b) cutting designs on glass surfaces with sandblasting equipment;
- c) illustrating, covering and painting surfaces such as walls, linen, paper and other materials;
- d) engraving monograms and ornamental designs on glassware; and
- e) etching decorative designs, calibration markings and other figures on glass ware.

**Examples of the occupations classified here:** [\(refer to index; unit group 7316\)](#)

7316-01	Etcher
7316-02	Engraver
7316-03	Sandblaster, Glass
7316-04	Ceramic Dipper



## UNIT GROUP 7317 HANDICRAFT WORKERS IN WOOD, BASKETRY AND RELATED MATERIALS

**Handicraft Workers in Wood, Basketry and Related Materials** apply traditional and/or modern techniques to prepare articles from wood, straw, rattan, reeds, stone, clay, shells and other materials, and carve, mould, assemble, weave or paint and decorate various articles for personal or household use or for decorative purposes.

### Tasks include:

- a) preparing wood, straw, rattan, reeds, stone, shells or similar materials;
- b) carving, assembling, weaving, painting and decorating various articles for personal or household use such as salad bowls, spoons, cutting boards, trays, vases, jugs, baskets, straw hats, straw mats and similar objects;
- c) carving, assembling, weaving and painting various decorative articles such as statues and other sculptures;
- d) making wicker furniture from peeled and softened rattan, reeds, rushes, willow branches and similar materials;
- e) making various kinds of baskets by interlacing rattan, reeds, rushes or similar materials;
- f) selecting and preparing brush materials such as bristles, nylon, fibres and wire, and setting them in brush base;
- g) selecting and preparing materials such as broom;
- h) making mats of coconut or palm fronds and grasses; and
- i) performing related tasks.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 7317](#))

7317-01	Craft Instructor, Grade E17
7317-02	Mat Weaver
7317-03	Handicraft Worker, Wooden Articles
7317-04	Basket Maker

## UNIT GROUP 7318 HANDICRAFT WORKERS IN TEXTILE, LEATHER AND RELATED MATERIALS

**Handicraft Workers in Textile, Leather and Related Materials** apply traditional and/or modern techniques to produce various articles for personal or household use, as well as for decorative purposes.

### Tasks include:

- a) preparing carving, moulding, assembling, painting and decorating various decorative articles; weaving, knitting, embroidering and lace-making;
- b) producing traditional footwear; and
- c) producing handbags, belts and other accessories.

**Examples of the occupations classified here:** ([refer to index](#); [unit group 7318](#))

7318-01	Weaver, Songket
7318-02	Batik Painter
7318-03	Maker, Leather Goods
7318-04	Handicraft Worker, Carpets

#### UNIT GROUP 7319 HANDICRAFT WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Handicraft Workers Not Elsewhere Classified in minor group 731: Handicraft Workers.

**Tasks include:**

- a) preparing, carving, moulding, assembling, painting and decorating a variety of goods; and
- b) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7319\)](#)

7319-01	Badge Maker
7319-02	Craftsman
7319-03	Metal Toymaker

#### MINOR GROUP 732 PRINTING TRADES WORKERS

**Printing Trades Workers** set and arrange printing type, stencil on paper and other materials, or bind and finish books and operate the offset machine, offset camera, plate making machine, copier, scanner and maintain the machines before, during and after use.

#### UNIT GROUP 7321 PRE-PRESS WORKERS

**Pre-Press Workers** proof, format, set and compose text and graphics in a form suitable for the various printing processes.

**Tasks include:**

- a) overseeing and managing the offset machine, offset camera, plate making machine, copier, scanner and maintain the machines thoroughly before, during and after use;
- b) arranging for printing;
- c) operating graphic cameras and other photographic equipment to produce camera-ready copy onto films, plates and digital output devices;
- d) using computer applications to produce an image, text, layout and imposition for printing and other visual media displays;
- e) operating equipment which produces images from film to printing plates, digital output devices and presses;
- f) operating computer screen-based equipment for scanning, colour separation, colour correction, masking, creative design, combining, imposing, retouching and other processes used to transfer copy to film and produce film for plate, digital output and cylinder production; and
- g) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7321\)](#)

7321-01	Offset Camera / Plate Maker Operator, Grade N17
7321-02	Compositor
7321-03	Braille Plate Maker
7321-04	Typesetter

## UNIT GROUP 7322 PRINTERS

**Printers** print from stencils and operate printing equipment and maintain the machines before, during and after use.

**Tasks include:**

- a) cutting stencils for printing;
- b) printing on paper, metal, textiles and other materials by silk-screen process;
- c) printing designs and patterns on cloth or wallpaper with engraved blocks or machines equipped with engraved rollers;
- d) reproducing copies of textile designs by tracing them onto transparent materials; and
- e) mixing ink and solvents, and controlling the supply of paper and ink during the printing process;
- f) monitoring the operation of the machine and the quality of printing;
- g) adjusting, maintaining, repairing and cleaning the printing press;
- h) producing digital print images, transferring and outputting images; and
- i) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7322)*

7322-01	Printer
7322-02	Textile Printer
7322-03	Block Printer
7322-04	Press Operator, Embossing

## UNIT GROUP 7323 PRINT FINISHING AND BINDING WORKERS

**Print Finishing and Binding Workers** bind books and other publications by hand or machine and finish printed products.

**Tasks include:**

- a) binding books and periodicals by hand;
- b) setting and operating bookbinding machines;
- c) embossing designs or titles on books by hand or machine;
- d) mounting maps and charts; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7323)*

7323-01	Bookbinder
7323-02	Paper Cutter
7323-03	Map and Chart Mounter
7323-04	Book Embosser

## UNIT GROUP 7324 PRINTING AND PHOTO ENGRAVERS AND ETCHERS

**Printing and Photo Engravers and Etchers** engrave lithographic stones and printing plates, rollers, dies and blocks by various processes, develop and process photographic film and make prints.

### Tasks include:

- a) cutting designs through film applied to surface of lithographic stones;
- b) engraving steel and copper plates, rollers, dies or wood, rubber and linoleum blocks by hand;
- c) engraving metal plates and rollers by machine;
- d) transferring designs on lithographic stone to metal plates;
- e) etching metal plates or rollers with acid and retouching;
- f) performing all or several tasks in preparing printing plates by the photogravure process;
- g) processing black and white or colour film;
- h) printing black and white or colour photographs;
- i) developing x-ray films; and
- j) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7324)*

7324-01	Engraver, Printing Metal Plate
7324-02	Etcher, Printing Metal Plate
7324-03	Engraver, Printing Lithographic Stone
7324-04	Photo-Engraver

## SUB-MAJOR 74 ELECTRICAL AND ELECTRONIC TRADES WORKERS

**Electrical and Electronic Trades Workers** install, adapt and maintain electrical wiring systems and associated equipment, electrical machinery and other appliances, and install, build and repair electrical power transmission cables, and associated equipment.

### MINOR GROUP 741 ELECTRICAL EQUIPMENT INSTALLERS AND REPAIRERS

**Electrical Equipment Installers and Repairers** install, adapt and maintain electrical wiring systems and associated equipment, electrical machinery and other appliances, and install, build and repair electrical power transmission cables, and associated equipment.

#### UNIT GROUP 7411 BUILDING AND RELATED ELECTRICIANS

**Building and Related Electricians** service and repair electrical wiring systems in buildings.

**Tasks include:**

- a) installing, maintaining and repairing electrical wiring systems and related equipment in various buildings such as business establishments, residential buildings, schools, hospitals and commercial establishments;
- b) carrying out inspection, servicing and maintenance (based on field or specialisation such as electrical); and
- c) performing related tasks.

**Examples of the occupations classified here:** (*refer to index; unit group 7411*)

7411-01	Tradesman K2 – Electrician, Grade R11
7411-02	Electrician, Building
7411-03	Electrician, Construction
7411-04	Electrician

#### UNIT GROUP 7412 ELECTRICAL MECHANICS AND FITTERS

**Electrical Mechanics and Fitters** fit, adjust, install, service and repair electrical machinery and other electrical apparatus and equipment in buildings, factories, workshops or other places.

**Tasks include:**

- a) installing, maintaining and repairing electrical equipment in various buildings such as schools, hospitals, commercial establishments, residential buildings and other structures;
- b) fitting, adjusting and repairing various kinds of electrical machinery and motors, generators, switch gears and control apparatus, instruments or electrical parts of lifts and related equipment;
- c) fitting, adjusting and repairing electrical parts in domestic appliances, industrial machines and other appliances, or electrical apparatus in aircraft, ships and vehicles;
- d) installing, maintaining and repairing electrical equipment in theatres and radio or television studios;
- e) inspecting and testing manufactured electrical products;
- f) planning and carrying out preventive and scheduled maintenance of electrical installation;
- g) repairing any damage and restoring electrical low voltage switch gears and conducting electrical testing at all times as well as maintaining and inspecting all wiring, switches, starter panels, control panels, electric motors and other applicable equipment; and

- h) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7412)*

7412-01	Chargeman, Grade R17
7412-02	Chargeman, Grade 11
7412-05	Electrical Fitter
7412-06	Electrical Fitter, Lift

#### **UNIT GROUP 7413 ELECTRICAL LINE INSTALLERS AND REPAIRERS**

**Electrical Line Installers and Repairers** install and repair power, telephone, telegraph and television lines and cables.

**Tasks include:**

- a) installing and repairing overhead and underground electrical power and electric traction lines;
- b) installing and repairing overhead and underground telephone and telegraph lines;
- c) making joints in overhead and underground cables;
- d) carrying out inspection, servicing and maintenance (based on field or specialisation such as electrical); and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7413)*

7413-01	Tradesman K3 - Electrical Wiring, Grade R9
7413-02	Tradesman K2 - Equipment Wiring (Electric), Grade R11
7413-06	Electrical Power Line Installer
7413-07	Cable Line Worker

#### **MINOR GROUP 742 ELECTRONICS AND TELECOMMUNICATIONS INSTALLERS AND REPAIRERS**

**Electronics and Telecommunications Installers and Repairers** fit, adjust, install, service and repair electronic instruments and control systems, and maintain telecommunications equipment, data transmission equipment, cables, antennae, and repair, fit and maintain computers.

#### **UNIT GROUP 7421 ELECTRONICS MECHANICS AND SERVICERS**

**Electronics Mechanics and Servicers** fit, maintain, adjust and repair electronic equipment and machines such as commercial and office machines and electronic control systems.

**Tasks include:**

- a) examining and testing machines, instruments, components and other equipment;
- b) installing, adjusting, repairing or replacing electrical and electronic components; and
- c) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7421)*

7421-01	Fitter, Electronics
7421-02	Repairer, Electronics
7421-03	Fitter, Electronic Industrial Equipment
7421-04	Fitter, Electronic Meteorological Equipment



**UNIT GROUP 7422    INFORMATION AND COMMUNICATIONS TECHNOLOGY INSTALLERS AND SERVICERS**

**Information and Communications Technology Installers and Servicers** install, service and maintain telecommunications equipment, data transmission equipment, cables, antennae, and repair, fit and maintain computer equipment.

**Tasks include:**

- a) installing, servicing and repairing telecommunications equipment;
- b) maintaining, troubleshooting, testing and repairing computers, data transmission equipment and computer peripherals;
- c) installing and customising the computer hardware;
- d) installing, maintaining, repairing and diagnosing damage in microwave, telemetry, multiplexing, satellite and other radio and electromagnetic wave communications systems;
- e) providing technical advice and information, and monitoring the performance of complex telecommunications networks and equipment;
- f) installing and repairing cables for computer, telephone, radio and television transmission;
- g) installing, maintaining and repairing the antenna used in communications; and
- h) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7422)*

7422-01	Telephone Wireman
7422-02	Telephone and Telegraph Installer
7422-03	Telephone and Telegraph Mechanic
7422-04	Telephone and Telegraph Servicer

## SUB-MAJOR 75 **FOOD PROCESSING AND RELATED WORKERS**

**Food Processing and Related Workers** treat and process agricultural and fisheries raw materials into food and other products.

### MINOR GROUP 751 **FOOD PROCESSING AND RELATED WORKERS**

**Food Processing and Related Workers** slaughter animals, process fish, treat and prepare them and related food items for human and animal consumption, make various kinds of bread, cakes and other flour products, process and preserve fruit, vegetables and related foods, taste and grade various food products and beverages, or prepare tobacco and make tobacco products.

#### UNIT GROUP 7511 **MEAT AND FISH PROCESSING WORKERS AND RELATED FOOD PREPARERS**

**Meat and Fish Processing Workers and Related Food Preparers** slaughter animals, clean, cut and dress meat and fish, and prepare related food items or preserve meat, fish and other food products by drying, salting or smoking.

**Tasks include:**

- a) slaughtering animals;
- b) flaying and trimming carcasses;
- c) cutting and dressing meat and fish for sale or further processing;
- d) preparing ingredients and making sausages and similar products using simple chopping, mixing and shaping machines;
- e) curing meat, fish and other foods;
- f) operating smokehouses or ovens to smoke meat, fish and other foodstuffs;
- g) cooking or preparing meat, fish and related food items for sale; and
- h) performing related tasks.

**Examples of the occupations classified here:** (*refer to index; unit group 7511*)

7511-01	Slaughterer
7511-02	Meat Cutter
7511-03	Meat Slicer
7511-04	Sausage Maker

#### UNIT GROUP 7512 **BAKERS, PASTRY AND PASTA-COOKS, AND CONFECTIONERY MAKERS**

**Bakers, Pastry and Pasta-Cooks, and Confectionery Makers** make various kinds of bread, buns, cakes and other flour products, as well as handmade chocolate and sugar confectionery.

**Tasks include:**

- a) making bread, buns, cakes, biscuits, pastries, pies and other flour products;
- b) making handmade confectionery from mixtures of sugar, chocolate and other ingredients with the help of tools and some machines;
- c) checking the quality of raw materials to ensure that standards and specifications are met;
- d) checking the cleanliness of equipment and operation of the premises before the production process to ensure compliance with occupational health and safety regulations;
- e) monitoring the oven temperature and product appearance to determine baking times; and
- f) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7512)*

7512-01	Baker
7512-02	Pastry Baker
7512-03	Confectionary Maker
7512-04	Chocolate Maker

#### **UNIT GROUP 7513 DAIRY-PRODUCT MAKERS**

**Dairy-Product Makers** process butter and various types of cheese, cream or other dairy products.

**Tasks include:**

- a) making milk powder, skim milk, cream, condensed milk, evaporated milk, ricotta cheese, butter, cheeses and other dairy products; and
- b) boiling or pasteurising milk to achieve the desired butter fat content;
- c) monitoring product quality before packaging by inspecting, taking samples and adjusting treatment conditions when necessary; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7513)*

7513-01	Cheese Maker
7513-02	Yogurt Maker
7513-03	Butter Maker

#### **UNIT GROUP 7514 FRUIT, VEGETABLE AND RELATED PRESERVERS**

**Fruit, Vegetable and Related Preservers** process or preserve fruit, nuts and related foods in various ways including cooking, drying, salting, or juice or oil extraction.

**Tasks include:**

- a) extracting juices from various fruit;
- b) extracting oils from oil-bearing seeds, nuts or fruit;
- c) cooking, salting or drying fruit, vegetables and related foods; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7514)*

7514-01	Fruit Preserver
7514-02	Vegetable Preserver
7514-03	Fruit Juice Maker
7514-04	Syrup Maker

#### UNIT GROUP 7515 FOOD AND BEVERAGE TASTERS AND GRADERS

**Food and Beverage Tasters and Graders** inspect, taste and grade various types of agricultural products, food and beverages.

**Tasks include:**

- a) inspecting, testing and tasting agricultural products, food and beverages;
- b) determining the quality and grading into appropriate classes; and
- c) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7515)*

7515-01	Taster, Food
7515-02	Taster, Beverages
7515-03	Grader, Food
7515-04	Taster and Grader, Tea

#### UNIT GROUP 7516 TOBACCO PREPARERS AND TOBACCO PRODUCT MAKERS

**Tobacco Preparers and Tobacco Product Makers** prepare tobacco leaves and make various tobacco products.

**Tasks include:**

- a) grading cured tobacco leaves by type, quality and locality where grown;
- b) mixing tobacco leaves according to formula to obtain a blend of distinct flavour;
- c) tending vacuum containers which moisten tobacco for further processing;
- d) removing midribs and stalks from tobacco leaves and shredding tobacco;
- e) making cigars, cigarettes and other tobacco products by hand or using simple machines; and
- f) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7516)*

7516-01	Grader, Tobacco
7516-02	Maker, Cigar
7516-03	Maker, Cigarette
7516-04	Quality Checker, Cigarette

## SUB-MAJOR 76 OTHER CRAFT WORKERS

**Other Craft workers** treat, make and repair wooden furniture and other wood products, produce garments, shoes and related items, dive underwater, shofire and blast, grade and test products (excluding food and beverages), and control pests.

### MINOR GROUP 761 WOOD TREATERS, CABINET-MAKERS AND RELATED TRADES WORKERS

**Wood Treathers, Cabinet-Makers and Related Trades Workers** make, decorate and repair wooden furniture, vehicle parts and other wooden products. They use hand tools and adjust and operate woodworking and wood processing tools as well as machinery equipment and machines.

#### UNIT GROUP 7611 **WOOD TREATERS**

**Wood Treathers** season and preserve wood.

**Tasks include:**

- a) seasoning wood by air-drying in sunlight;
- b) manually treating wood with chemicals to protect it against decay or parasites;
- c) grading wood or veneer according to size and quality; and
- d) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 7611](#))

7611-01	Wood Impregnator
7611-02	Wood Treater
7611-03	Wood Seasoner
7611-04	Grader, Wood

#### UNIT GROUP 7612 **CABINET-MAKERS AND RELATED WORKERS**

**Cabinet-Makers and Related Workers** make, decorate and repair wooden furniture, wheels or other wooden parts of vehicles, and other items such as pipes, shoes or racquets, and bats for sports using woodworking machines and specialised hand tools.

**Tasks include:**

- a) making and repairing wooden articles such as cabinets and other furniture, using woodworking machines and hand tools;
- b) making and repairing wooden vehicles, wheels or other wooden parts of vehicles;
- c) decorating furniture and fixtures by inlaying wood, applying veneer and carving designs;
- d) finishing surfaces of wooden articles or furniture;
- e) carrying out inspection, servicing and maintenance (based on field or specialisation); and
- f) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 7612](#))

7612-01	Tradesman K2 - Furniture Maker, Grade R11
7612-02	Maker, Cabinet
7612-03	Builder, Bullock Cart
7612-04	Maker, Furniture

#### UNIT GROUP 7613 WOODWORKING-MACHINE TOOL SETTERS AND OPERATORS

**Woodworking-Machine Tool Setters and Operators** set up or operate or monitor automatic or semi-automatic woodworking machines to fabricate or repair wooden parts of furniture, fixtures and other wood products.

**Tasks include:**

- a) setting up or operating and monitoring woodworking machines to fabricate or repair wooden parts of furniture, fixtures and other wood products;
- b) setting up and adjusting a variety of woodworking machines; and
- c) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 7613](#))

7613-01	Adjuster, Wood Machine
7613-02	Operator, Wood Machine
7613-03	Setter, Wood Machine
7613-04	Carving Machine Operator (Wood)

#### MINOR GROUP 762 GARMENT AND RELATED WORKERS

**Garment and Related Workers** fit, alter and repair tailored clothing; design, and make textile and fur garments, leather or fur products; repair, modify and decorate garments, gloves and other products of textile; create patterns for garments; install, repair and replace upholstery of furniture, fixtures, orthopaedic appliances and furnishings of automobiles; trim, scrape, buff and dye animal hides, pelts or skins; modify and repair footwear and leather articles.

#### UNIT GROUP 7621 TAILORS, DRESSMAKERS, FURRIERS AND HATTERS

**Tailors, Dressmakers, Furriers and Hatters** make suits and other clothing from cloth, leather or other materials, and repair tailored clothing or participate in the manufacture of ready-to-wear garments, or alter, repair and make hats and wigs.

**Tasks include:**

- a) operating standard or specialised single- or multiple-needle sewing machines to make or repair garments, gloves or other products and embroider on textiles, fur or leather;
- b) making overcoats, suits, skirts, shirts, blouses, lingerie, corsets and similar garments according to customer requirements;
- c) participating in the manufacture of ready-to-wear clothing;
- d) embroidering decorative designs on garments or materials;
- e) making various kinds of hats and caps;
- f) altering, restyling and repairing garments;
- g) making and caring for costumes used in theatrical, television and motion picture productions;
- h) making wigs according to specifications, fastening strands of hair to a cloth base;
- i) assembling complete umbrellas by fixing various component parts such as collapsible metal frame, springs and umbrella fabric;
- j) sewing sails, tents, awnings and similar articles; and
- k) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 7621](#))

7621-01	Tradesman K3 – Tailor, Grade R9
7621-02	Tailor
7621-03	Dressmaker
7621-04	Milliner



## UNIT GROUP 7622 GARMENT AND RELATED PATTERN-MAKERS AND CUTTERS

**Garment and Related Pattern-Makers and Cutters** mark and cut textile, leather and other materials in the manufacture of garments, gloves and miscellaneous products.

### Tasks include:

- a) drawing and cutting out patterns for making suits, dresses, shirts, blouses, gloves, hats and caps and other garments;
- b) making outlines of patterns on cloth, leather or other materials to guide cutting;
- c) cutting material according to pattern outline for making up garments, gloves and related items;
- d) performing pattern-making, marking and cutting in the manufacture of other products such as soft furnishings, umbrellas and canvas goods; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7622)*

7622-01	Pattern-Maker, Garment
7622-02	Pattern-Maker, Hat and Cap
7622-03	Maker, Garment
7622-04	Cutter, Garment

## UNIT GROUP 7623 SHOEMAKERS AND RELATED WORKERS

**Shoemakers and Related Workers** make and repair standard or special footwear, hats and gloves, make natural or synthetic leather articles such as luggage, handbags and belts, or participate in the manufacture of related goods.

### Tasks include:

- a) making patterns to guide the cutting of shoe parts;
- b) cutting out, preparing and fitting together shoe parts;
- c) sewing shoe parts together;
- d) making standard or orthopaedic footwear to individual requirements;
- e) making other special types of footwear to order;
- f) examining and finishing footwear;
- g) repairing footwear;
- h) making and repairing saddles and harnesses for animals, luggage, handbags, wallets, belts, briefcases, leather bags and other accessories;
- i) making and shaping leather articles;
- j) sewing and stitching leather parts by hand or machine; and
- k) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7623)*

7623-01	Shoemaker
7623-02	Maker, Surgical Footwear
7623-03	Shoemaker, Orthopaedic
7623-04	Repairer, Footwear

## UNIT GROUP 7624 UPHOLSTERERS AND RELATED WORKERS

**Upholsterers and Related Workers** install, repair and replace upholstery of furniture, fixtures, orthopaedic appliances, seats, panels, vinyl and other furnishings of automobiles, railway coaches, aircraft and ship. They also make and repair cushions, quilt and mattresses.

### Tasks include:

- a) installing, arranging and securing springs, padding and covering material to furniture frames;
- b) fitting and installing covers and cushioning for seats and other accessories on vehicles such as cars, buses, railway coaches and aircraft;
- c) making mattresses;
- d) fitting and installing soft furnishings and interior decorations of textile, leather and similar materials;
- e) repairing upholstered parts of worn furniture, mattresses and related products; and
- f) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7624)*

7624-01	Upholsterer, Furniture
7624-02	Upholsterer, Vehicle
7624-03	Maker, Mattress
7624-04	Maker, Cushion

## UNIT GROUP 7625 PELT DRESSERS, TANNERS AND FELLMONGERS

**Pelt Dressers, Tanners and Fellmongers** prepare hides and skins for making leather products.

### Tasks include:

- a) sorting and grading pelts, hides and skins;
- b) removing flesh and fat from pelts before curing;
- c) removing flesh and hair from hides;
- d) removing long coarse hair from pelts and trimming underlying hair to even length;
- e) operating machine to split hides edgeways;
- f) treating hides to convert them into leather;
- g) applying dyes to fur pelts;
- h) dressing and applying dyes and stains to leather;
- i) stretching and smoothing dressed pelts; and
- j) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7625)*

7625-01	Pelt Dresser
7625-02	Tanner
7625-03	Fellmonger

### MINOR GROUP 763 **OTHER CRAFT AND RELATED WORKERS**

**Other Craft and Related Workers** participate in activities related to underwater diving, shottfiring and blasting, grading and testing products (excluding food and beverages), and fumigate and control pests and weeds.

#### UNIT GROUP 7631 **UNDERWATER DIVERS**

**Underwater Divers** work under the surface of water with the aid of breathing apparatus to inspect, install, repair and remove equipment and structures, conduct tests or experiments, rig explosives, photograph structures or marine life, recover items or search for missing persons.

**Tasks include:**

- a) taking safety precautions such as monitoring dive lengths and depths, and registering with authorities before diving expeditions begin;
- b) inspecting and maintaining diving equipment such as helmets, masks, air tanks, diving suits, harnesses and gauges;
- c) working underwater to lay and repair bridges, piers and harbour wall foundations;
- d) inspecting for suspected damage and making minor repairs to ship hulls and underwater installations;
- e) reporting on condition of wrecked ships;
- f) removing underwater obstructions;
- g) drilling holes for underwater blasting;
- h) performing various underwater tasks connected with rescue or search for bodies;
- i) communicating with workers on the surface, while under water, using the signal or telephone lines;
- j) obtaining information about diving tasks and environmental conditions; and
- k) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7631)*

7631-01	Diver
7631-02	Diver, Construction
7631-03	Underwater Worker
7631-04	Underwater Diver

#### UNIT GROUP 7632 **SHOTFIRERS AND BLASTERS**

**Shottfiring and Blasters** assemble, position and detonate explosives in order to move or break up soil and rocks, or demolish buildings.

**Tasks include:**

- a) assembling, positioning and detonating explosives to move, break up soil and rocks, or demolish buildings;
- b) ensuring safety in the workplace, and procedures and regulations for the handling, storage and transport of explosives are complied;
- c) planning and giving instructions to lay out and estimate the depth and diameter of blast holes;
- d) examining the depth and cleanliness of blast holes;
- e) determining the quantity and type of explosives to be used;
- f) inserting explosives into blast holes;
- g) ensuring that all explosives are detonated, and reporting;
- h) declaring the blast area safe before and after detonation; and
- i) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 7632)*

7632-01	Blaster
7632-02	Shottfirer
7632-03	Explosives Worker
7632-04	Detonator

## UNIT GROUP 7633 PRODUCT GRADERS AND TESTERS (EXCLUDING FOODS AND BEVERAGES)

**Product Graders and Testers (Excluding Foods and Beverages)** inspect, test, sort, sample and weigh raw materials and goods produced or sold to ensure compliance with quality standards, identify defects, wear and deviations from specifications, and grade and classify them according to quality.

### Tasks include:

- a) inspecting and testing products (excluding food and beverages) at various stages of processing to determine quality and grade;
- b) examining and verifying product grade;
- c) conducting inspection to ensure compliance with sanitation, grade, quality and labelling standard;
- d) obtaining product sample;
- e) checking and recommending licensing of industry graders;
- f) issuing hold orders and/or disposal orders;
- g) testifying in trials and court action as required; and
- h) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7633\)](#)

7633-01	Grader, Fibre
7633-02	Quality Inspector
7633-03	Wool Classer

## UNIT GROUP 7634 FUMIGATORS AND PEST AND WEED CONTROLLERS

**Fumigators and Pest and Weed Controllers** use chemicals to remove harmful insects, small animals, wild plants and other unwanted organisms to prevent damage to crops and buildings and other structures and their surroundings and to prevent health risks.

### Tasks include:

- a) inspecting buildings or surroundings;
- b) taking safety precautions in the use and storage of chemicals;
- c) deciding on course of action to control or eliminate pests;
- d) preparing estimates and bills for clients;
- e) preparing and spraying chemical mixtures using various types of equipment;
- f) maintaining equipment in safe, efficient working order;
- g) maintaining work records of all properties inspected, pest or weed problems, chemicals used and amount of time spent at each location;
- h) placing and setting traps;
- i) advising clients on methods to prevent pest infestation; and
- j) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7634\)](#)

7634-01	Pest Controller
7634-02	Fumigator
7634-03	Fogging Worker, Bee
7634-04	Fogging Worker, Mosquito

#### UNIT GROUP 7639 OTHER RELATED CRAFT WORKERS NOT ELSEWHERE CLASSIFIED

This unit group covers Other Related Craft Workers Not Elsewhere Classified in Minor Group 763: Other Craft and Related Workers.

**Tasks include:**

- a) operating the camera;
- b) heating, moulding and pressing optical glass to make lens blanks;
- c) grinding and polishing lens blanks; and
- d) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 7639\)](#)

7639-01	Assistant Camera Operator, Grade N11
7639-02	Camera/Driver Assistant, Grade N3
7639-03	Optical Lens Finisher
7639-04	Optical Lens Moulder





# 8

## PLANT AND MACHINE OPERATORS AND ASSEMBLERS



## **81 STATIONARY PLANT AND MACHINE OPERATORS**

### **811 MINING AND MINERAL PROCESSING PLANT OPERATORS**

- 8111 Miners and Quarry Workers
- 8112 Mineral and Stone Processing Plant Operators
- 8113 Well Drillers and Borers and Related Workers
- 8114 Cement, Stone and Other Mineral Products Machine Operators

### **812 METAL PROCESSING AND FINISHING PLANT OPERATORS**

- 8121 Metal Processing Plant Operators
- 8122 Metal Finishing, Plating and Coating Machine Operators

### **813 CHEMICAL AND PHOTOGRAPHIC PRODUCTS PLANT AND MACHINE OPERATORS**

- 8131 Chemical Products Plant and Machine Operators
- 8132 Photographic Products Machine Operators

### **814 RUBBER, PLASTIC AND PAPER PRODUCTS MACHINE OPERATORS**

- 8141 Rubber Products Machine Operators
- 8142 Plastic Products Machine Operators
- 8143 Paper Products Machine Operators

### **815 TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS**

- 8151 Fibre Preparing, Spinning and Winding Machine Operators
- 8152 Weaving and Knitting Machine Operators
- 8153 Sewing Machine Operators
- 8154 Bleaching, Dyeing and Fabric Cleaning Machine Operators
- 8155 Fur and Leather Preparing Machine Operators
- 8156 Shoemaking and Related Machine Operators
- 8157 Laundry Machine Operators
- 8159 Textile, Fur and Leather Products Machine Operators Not Elsewhere Classified

### **816 FOOD AND RELATED PRODUCTS MACHINE OPERATORS**

- 8161 Food and Related Products Machine Operators

### **817 WOOD PROCESSING AND PAPERMAKING PLANT OPERATORS**

- 8171 Pulp and Papermaking Plant Operators
- 8172 Wood Processing Plant Operators
- 8173 Wood Products Machine Operators



## **818 OTHER STATIONARY PLANT AND MACHINE OPERATORS**

- 8181 Glass and Ceramics Plant Operators
- 8182 Steam Engine and Boiler Operators
- 8183 Packing, Bottling and Labelling Machine Operators
- 8189 Stationary Plant and Machine Operators Not Elsewhere Classified

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## **82 ASSEMBLERS**

### **821 ASSEMBLERS**

- 8211 Mechanical Machinery Assemblers
- 8212 Electrical and Electronic Equipment Assemblers
- 8213 Leather, Metal, Rubber and Plastic Products Assemblers
- 8219 Assemblers Not Elsewhere Classified

### **822 MACHINE-TOOL SETTER-OPERATORS**

- 8221 Machine-Tool Setter-Operators

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## **83 DRIVERS AND MOBILE PLANT OPERATORS**

### **831 LOCOMOTIVE ENGINE DRIVERS AND RELATED WORKERS**

- 8311 Locomotive Engine Drivers
- 8312 Railway Brake, Signal and Switch Operators

### **832 CAR, VAN AND MOTORCYCLE DRIVERS**

- 8321 Motorcycle Riders (Drivers)
- 8322 Car, Taxi and Van Drivers

### **833 HEAVY TRUCK AND BUS DRIVERS**

- 8331 Bus and Tram Drivers
- 8332 Heavy Truck and Lorry Drivers

### **834 MOBILE PLANT OPERATORS**

- 8341 Mobile Farm and Forestry Plant Operators
- 8342 Earth-Moving and Related Plant Operators
- 8343 Crane, Hoist and Related Plant Operators
- 8344 Lifting Truck Operators

### **835 SHIPS' DECK CREWS AND RELATED WORKERS**

- 8351 Ships' Deck Crews and Related Workers

SUB-MAJOR GROUP

81

82

83

81. STATIONARY PLANT AND MACHINE OPERATORS

82. ASSEMBLERS

83. DRIVERS AND MOBILE PLANT OPERATORS



# MAJOR GROUP 8 PLANT AND MACHINE OPERATORS AND ASSEMBLERS

## Description

Operate and monitor industrial and agricultural machinery and equipment, drive and operate trains, motor vehicles and mobile machinery and equipment, or assemble product component parts according to strict specifications and procedures.

The work mainly calls for experience with and understanding of industrial and agricultural machinery and equipment as well as an ability to cope with machine-paced operations and to adapt to technological innovations.

## Skill Level

Most occupations in this major group require skills at the second level

### SUB-MAJOR 81 STATIONARY PLANT AND MACHINE OPERATORS

**Stationary Plant and Machine Operators** operate and monitor stationary industrial plants, machinery and equipment whether on site or with a remote control or for which mobility is not an integral part of operations.

### MINOR GROUP 811 MINING AND MINERAL PROCESSING PLANT OPERATORS

**Mining and Mineral Processing Plant Operators** operate and monitor plants and machinery to extract rocks and minerals from the earth, process minerals and stones, drill wells and bores, and manufacture and finish cement and stone products.

### UNIT GROUP 8111 MINERS AND QUARRY WORKERS

**Miners and Quarry Workers** operate machinery, plants and hand tools, and extract solid minerals from underground and open cast mines or quarries.

#### Tasks include:

- extracting coal, ore and other solid minerals from underground or open cast mines;
- extracting granite, limestone, slate, flint or other kinds of rocks from quarries;
- setting up and operating machines which perforate channels or drill blasting holes into the open face of mines or quarries;
- cutting, fitting and installing wood or steel props;
- assembling poles and arches to support walls and roofs of underground work;
- collecting samples of coal or ore for laboratory analysis;
- extracting limestone, clay, gravel or sand from open cast mines;
- ensuring observance of workplace safety procedures and regulations;
- operating and monitoring mining machines; and
- performing related tasks.

Examples of the occupations classified here: [\(refer to index; unit group 8111\)](#)

8111-01	Miner
8111-02	Quarrier
8111-03	Machine Operator, Drilling
8111-04	Machine Operator, Mine Drilling

## UNIT GROUP 8112 MINERAL AND STONE PROCESSING PLANT OPERATORS

**Mineral and Stone Processing Plant Operators** operate and monitor machinery and equipment for processing mineral ores and stones.

**Tasks include:**

- a) operating and monitoring equipment which crushes and breaks lumps of minerals and stones to required size;
- b) operating and monitoring washing, separating, leaching, precipitating, filtering, extracting and combining equipment to wash mineral ore in order to remove waste material;
- c) combining mineral ores with solvents to facilitate further processing;
- d) separating metal or mineral concentrates from ore or alluvial deposits by thickening, floatation, gravity separation, filtration, or magnetic or electrostatic separation; and
- e) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 8112\)](#)

8112-01	Machine Operator, Stone Processing
8112-02	Machine Operator, Stone Splitting
8112-03	Machine Operator, Stone Crushing
8112-04	Machine Operator, Stone Milling

## UNIT GROUP 8113 WELL DRILLERS AND BORERS AND RELATED WORKERS

**Well Drillers, Borers and Related Workers** position, assemble and operate drilling machinery and related equipment to dig wells, extract ores, liquids or gases, or for various other purposes.

**Tasks include:**

- a) preparing and operating derrick pipe-handling devices and slush pumps;
- b) operating rotary or percussion-drilling machinery and equipment to drill oil or gas wells;
- c) cleaning and servicing oil or gas wells and replacing pumping rods, casings and tubings; and
- d) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 8113\)](#)

8113-01	Operator, Drilling Equipment
8113-02	Operator, Cable Drilling Equipment
8113-03	Operator, Well Drilling Equipment
8113-04	Operator, Oil and Gas Well Derrick

## UNIT GROUP 8114 CEMENT, STONE AND OTHER MINERAL PRODUCTS MACHINE OPERATORS

**Cement, Stone and Other Mineral Products Machine Operators** operate and monitor extrusion, moulding, mixing, grinding and cutter machines which manufacture and finish various precast concrete and stone products, or which make cast stone for building purposes.



**Tasks include:**

- a) operating and monitoring extrusion, moulding, grinding and cutter machines which manufacture and finish various precast concrete and stone products such as flagstones, fencing posts, moulded pipe sections and trench liners, walling and partition slabs, building components, cable conduits, fume and dust extraction conduits;
- b) operating and monitoring machines which mix sand, gravel, cement and water to make concrete; and
- c) operating heavy plant and machinery and mixing sand, gravel, cement, water and other materials to make concrete;
- d) cutting, grinding, drilling, sandblasting and polishing concrete and stone block products; and
- e) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 8114\)](#)

8114-01	Machine Operator, Concrete Mixing
8114-02	Machine Operator, Cast Concrete Product
8114-03	Machine Operator, Cement Product
8114-04	Machine Operator, Asbestos

**MINOR GROUP 812 METAL PROCESSING AND FINISHING PLANT OPERATORS**

**Metal Processing and Finishing Plant Operators** operate and monitor ore smelting, metal converting and refining furnaces, metal rolling mills, metal heat treating or metal extrusion plants.

**UNIT GROUP 8121 METAL PROCESSING PLANT OPERATORS**

**Metal Processing Plant Operators** operate and monitor ore smelting, metal converting and refining furnaces, metal rolling mills, metal heat treating or metal extrusion plants.

**Tasks include:**

- a) operating and monitoring rolling mills to form hot or cold steel into shapes for further processing, or into the final shape;
- b) operating and monitoring rolling mills to form hot or cold non-ferrous metal into specific shapes, such as plates, pieces or sheets;
- c) pouring molten metal into moulds and operating and monitoring casting machines;
- d) observing gauges, meters, computer printouts, video monitors and products to ensure proper operation;
- e) verifying specified processing conditions; and
- f) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 8121\)](#)

8121-01	Furnace Operator
8121-02	Furnace Operator, Steel Refining
8121-03	Furnace Operator, Steel Converting
8121-04	Hot-Roller Operator, Steel

## UNIT GROUP 8122 METAL FINISHING, PLATING AND COATING MACHINE OPERATORS

**Metal Finishing, Plating and Coating Machine Operators** operate and monitor equipment which finishes, plates and coats metal articles or parts in order to give them improved resistance to corrosion and abrasion, for decorative purposes, or to impart electrical or magnetic properties.

### Tasks include:

- a) operating and monitoring equipment which cleans metal articles in preparation for electroplating, galvanising, enamelling or similar processes;
- b) operating and monitoring electroplating equipment;
- c) operating and monitoring hot-dip equipment used to coat iron and steel products;
- d) operating and monitoring machines which automatically coat wire with non-ferrous metal;
- e) operating and monitoring equipment used to spray molten metal or other substances on metal products to provide a protective or decorative coating or to build up worn or damaged surfaces;
- f) operating and monitoring equipment to oxidise metal surfaces to decorative finishes by chemical process;
- g) operating sandblasting equipment to clean and smoothen surfaces of metal parts;
- h) operating machines to semi-finish the surface of cast metal articles;
- i) operating and monitoring equipment used to impart a rust-resistant finishing to metal articles by treating them with chemicals and heating them; and
- j) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 8122](#))

8122-01	Machine Operator, Metal Electroplating
8122-02	Electroplater
8122-03	Machine Operator, Metal Dipping
8122-04	Hot-Dip Plater

## MINOR GROUP 813 CHEMICAL AND PHOTOGRAPHIC PRODUCTS PLANT AND MACHINE OPERATORS

**Chemical and Photographic Products Plant and Machine Operators** operate and monitor machines which process a variety of chemicals and other ingredients to produce pharmaceuticals, toiletries, explosives and photographic or other chemical products.

## UNIT GROUP 8131 CHEMICAL PRODUCTS PLANT AND MACHINE OPERATORS

**Chemical Products Plant and Machine Operators** monitor and operate units and machinery to blend, mix, process and package a wide range of chemical products.

### Tasks include:

- a) setting up, starting, controlling, adjusting and stopping machines and plant;
- b) monitoring reaction processes and transferring products in compliance with safety procedures;
- c) monitoring meters, gauges and electronic instrumentation for one or more chemicals;
- d) monitoring formulation units, such as mixers, kettles, blenders, dryers, tableting, encapsulation, granulation and coating machines;
- e) measuring, weighing and loading chemical ingredients following formulation cards;
- f) taking samples and performing routine chemical and physical tests of products and recording production data; and
- g) cleaning and performing minor repairs to machines and plant.

**Examples of the occupations classified here:** *(refer to index; unit group 8131)*

8131-01	Machine Operator, Paint-Mixing
8131-02	Machine Operator, Chemical Process Mixing and Blending
8131-03	Machine Operator, Glue-Mixing
8131-04	Machine Operator, Chemical Process Pulverising

#### **UNIT GROUP 8132 PHOTOGRAPHIC PRODUCTS MACHINE OPERATORS**

**Photographic Products Machine Operators** operate and monitor equipment which makes photographic film and paper, and which processes exposed photographic film and makes prints.

**Tasks include:**

- a) operating and monitoring equipment which makes photographic film and paper;
- b) operating, monitoring and testing photographic processing and printing equipment, and maintaining operational standards;
- c) preparing exposed film for different processing batches in dark rooms and dark chambers;
- d) inspecting images, films, prints and adjusting settings on print-making equipment to produce required colour, brightness, contrast, number, size and type of prints;
- e) adjusting settings and running automatic processing film equipment;
- f) operating equipment to transfer film to video tape or other electronic media;
- g) operating automatic equipment (in retail shops) to develop colour negatives, prints and slides; and
- h) performing photographic processing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8132)*

8132-01	General Assistant, Photography
8132-02	Machine Operator, Photography Printing
8132-03	Machine Operator, Photography Development
8132-04	Machine Operator, Scanning and Filming

#### **MINOR GROUP 814 RUBBER, PLASTIC AND PAPER PRODUCTS MACHINE OPERATORS**

**Rubber, Plastic and Paper Products Machine Operators** operate and monitor machines which knead and blend rubber and rubber compounds, and produce various components and products from natural and synthetic rubber and plastics, or produce various types of products from paper, paperboard, cardboard and similar materials.

#### **UNIT GROUP 8141 RUBBER PRODUCTS MACHINE OPERATORS**

**Rubber Products Machine Operators** operate and monitor machines which knead and blend rubber and rubber compounds, and produce various components and products from natural and synthetic rubber such as moulded footwear, domestic articles, insulating materials, industrial accessories, or tyres for bicycles, automobiles, tractors, aircraft and other vehicles.

**Tasks include:**

- a) operating and monitoring machines which knead, mix and blend rubber and rubber compounds for further processing;
- b) operating and monitoring machines which produce sheets of rubber or rubberised fabric by a rolling process;

- c) operating and monitoring machines which extrude compounded rubber or shape vulcanised rubber by moulding;
- d) operating and monitoring machines which build up tyres according to the form, vulcanise tyres and mould or rebuild used tyres;
- e) operating and monitoring machines which manufacture rubber products such as hoses, air-bags, rubber foam for cushions and mattresses, rubber stamps, etc; and
- f) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8141)*

8141-01	Machine Operator, Rubber Milling
8141-02	Machine Operator, Rubber Extruding
8141-03	Press-Operator, Rubber Moulding
8141-04	Machine Operator, Rubber Calendar

#### UNIT GROUP 8142 PLASTIC PRODUCTS MACHINE OPERATORS

**Plastic Products Machine Operators** operate and monitor machines which knead and blend compounds to obtain plastic materials and which make various plastic components and articles.

**Tasks include:**

- a) operating and monitoring machines which knead, mix and blend compounds to obtain plastic materials;
- b) operating and monitoring machines which shape plastic materials by moulding, extrusion, cutting and other means;
- c) operating and monitoring machines which laminate plastics and plastic-impregnated materials;
- d) operating and monitoring machines which compress plastic powder into pellets;
- e) operating and monitoring machines which emboss designs on plastic sheets;
- f) operating and monitoring machines which make plastic products such as domestic articles, moulded footwear, toys and industrial accessories;
- g) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8142)*

8142-01	Machine Operator, Plastic Mixing
8142-02	Press-Machine Operator, Plastic Laminating
8142-03	Machine Operator, Plastic Extruding
8142-04	Machine Operator, Plastic Compression Moulding

#### UNIT GROUP 8143 PAPER PRODUCTS MACHINE OPERATORS

**Paper Products Machine Operators** operate and monitor machines which produce boxes, envelopes, bags and other products from paper, paperboard, cardboard, cellophane and similar materials.

**Tasks include:**

- a) operating machines which seal paper to cardboard, cut it to the required length or cut and crease cardboard or paperboard to form box blanks;
- b) operating pressing machines which form drinking cups or other containers from paper, paperboard or cardboard;
- c) operating machines which cut, fold and seal paper to make envelopes and paper bags, or which form bags from other materials;

- d) operating machines which make joss paper and other ceremonial paper products used in praying and other religious activities; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8143)*

8143-01	Machine Operator, Carton and Paper Box Production
8143-02	Machine Operator, Paper Products
8143-03	Machine Operator, Cellophane Bag Production
8143-04	Machine Operator, Envelope Production

## **MAJOR GROUP 815 TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS**

**Textile, Fur and Leather Products Machine Operators** operate and monitor various types of machines which prepare, process and treat fibres, yarn, thread, leather or fur, produce, modify and repair footwear and garments, and manufacture or dry-clean textiles or fur and leather articles.

### **UNIT GROUP 8151 FIBRE PREPARING, SPINNING AND WINDING MACHINE OPERATORS**

**Fibre Preparing, Spinning and Winding Machine Operators** operate and monitor machines which prepare fibres, and spin, twist and wind yarn and thread.

**Tasks include:**

- a) operating machines which combine textile fibres into uniform blends;
- b) operating machines which clean and fluff textile fibres, transform them into sliver, comb them into sliver for first drawing, combine slivers into sliver lap or sliver laps into ribbon lap, combine several slivers into one attenuated strand of regular quality and weight;
- c) operating machines which transform sliver into roving;
- d) operating machines which spin thread and yarn from roving, wind two or more threads onto a bobbin, twist two or more strands of yarn or thread into a single heavier and stronger strand, or wind yarn or thread from one package to another; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8151)*

8151-01	Machine Operator, Thread and Yarn Twisting
8151-02	Thread and Yarn Winder
8151-03	Thread and Yarn Spinner
8151-04	Silk Reeler

### **UNIT GROUP 8152 WEAVING AND KNITTING MACHINE OPERATORS**

**Weaving and Knitting Machine Operators** operate and monitor weaving and knitting machines and related equipment used to produce materials and fabrics.

**Tasks include:**

- a) operating machines used to weave or knit plain or printed cloth, tapestry, lace, carpets, garments, net, hosiery or other fabrics or articles; and
- b) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8152)*

8152-01	Machine Operator, Warping Beam (Textile Weaving)
8152-02	Machine Operator, Weaving
8152-03	Machine Operator, Carpet Weaving
8152-04	Machine Operator, Knitting

#### **UNIT GROUP 8153 SEWING MACHINE OPERATORS**

**Sewing Machine Operators** operate and monitor sewing machines to make, repair and renovate textile, fur, synthetic or leather garments, or embroider ornamental designs on garments or other materials.

**Tasks include:**

- a) operating and monitoring standard or specialised single- or multiple-needle sewing machines to make or repair garments, gloves and miscellaneous products of textile or leather, and embroidering ornamental designs on textile or other materials;
- b) performing equipment maintenance tasks such as replacing needles;
- c) attaching buttons, hooks, zips, fasteners or other accessories to fabric; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8153)*

8153-01	Sewing Machine Operator,
8153-02	Sewing Machine Operator, Leather
8153-03	Sewing Machine Operator, Crochet
8153-04	Sewing Machine Operator, Embroidery

#### **UNIT GROUP 8154 BLEACHING, DYEING AND FABRIC CLEANING MACHINE OPERATORS**

**Bleaching, Dyeing and Fabric Cleaning Machine Operators** operate and monitor machines which bleach, dye, wash and otherwise treat fibres, yarn or cloth, or dry clean textile and leather articles.

**Tasks include:**

- a) operating and monitoring machines which treat textile products to lighten their colour or to give them a specific colour;
- b) operating and monitoring machines which wash or dry-clean textile or leather products to remove dirt, impurities, excess chemicals or natural gum;
- c) operating and monitoring machines which shrink cloth or strengthen the weave by interlocking the fibres;
- d) operating and monitoring machines which impregnate textiles with chemicals to render them waterproof;
- e) operating and monitoring machines which treat silk to give it body and weight;
- f) operating and monitoring machines which press, stretch or impart lustre, or other type of finishes on textiles; and
- g) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8154)*

8154-01	Machine Operator, Textile Bleaching
8154-02	Machine Operator, Dyeing
8154-03	Machine Operator, Starch
8154-04	Machine Operator, Washing



#### UNIT GROUP 8155 FUR AND LEATHER PREPARING MACHINE OPERATORS

**Fur and Leather Preparing Machine Operators** operate and monitor various machines which prepare fur and leather.

**Tasks include:**

- a) operating and monitoring machines which remove flesh, fat and hair from pelts before curing;
- b) operating and monitoring machines which treat hides and skins in solutions and apply a finishing product to convert them into leather;
- c) operating and monitoring machines which apply dyes and stains to leather; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8155)*

8155-01	Machine Operator, Hide Processing
8155-02	Machine Operator, Hide Fleshing
8155-03	Machine Operator, Hide Dehairing
8155-04	Machine Operator, Tanning

#### UNIT GROUP 8156 SHOEMAKING AND RELATED MACHINE OPERATORS

**Shoemaking and Related Machine Operators** operate and monitor machines which produce and repair standard or special footwear, handbags and other accessories, mainly made of leather.

**Tasks include:**

- a) operating and monitoring machines which mark patterns and cut shoe parts;
- b) operating and monitoring machines which sew shoe parts together, or edge, polish, or apply ornaments and perform finishing tasks;
- c) operating and monitoring machines which produce luggage, handbags, belts and other accessories, as well as other items such as collars or harnesses; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8156)*

8156-01	Machine Operator, Footwear Production
8156-02	Machine Operator, Orthopaedic Footwear Production
8156-03	Machine Operator, Sports Footwear Production
8156-04	Machine Operator, Safety Footwear Production

#### UNIT GROUP 8157 LAUNDRY MACHINE OPERATORS

**Laundry Machine Operators** operate laundry, dry cleaning, presser and fabric treatment machines in laundries and dry cleaning establishments.

**Tasks include:**

- a) sorting articles for cleaning according to type, colour, fabric and cleaning treatment required;
- b) placing sorted articles into containers and onto conveyor belts to be brought to the repair and cleaning areas;
- c) checking and removing stains from garments, and replacing buttons and making minor repairs;

- d) loading and unloading washing machines, driers and extractors;
- e) adding cleaning agents and starches to laundry articles;
- f) monitoring laundry articles and guiding them through cleaning and pressing machines;
- g) stopping and starting machines to untangle, straighten and remove laundry articles;
- h) placing laundry articles on shelves and hanging laundry articles for delivery and collection; and
- i) packing laundry articles and preparing orders for delivery.

**Examples of the occupations classified here:** *(refer to index; unit group 8157)*

8157-01	Machine Operator, Textile Fibre Dyeing
8157-02	Machine Operator, Laundering
8157-03	Machine Operator, Laundry Presser

#### **UNIT GROUP 8159 TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS NOT ELSEWHERE CLASSIFIED**

This unit group includes Textile, Fur and Leather Products Machine Operators Not Elsewhere Classified in Minor Group 815: Textile Products Machine operators.

**Tasks include:**

- a) operating and monitoring machines which make hats, mattresses or miscellaneous articles such as braids, lace or other trimmings; and
- b) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8159)*

8159-01	Machine Operator, Garment Cutting
8159-02	Machine Cutter, Leather Garments
8159-03	Machine Operator, Textile Cutting
8159-04	Machine Operator, Hat Making

#### **MINOR GROUP 816 FOOD AND RELATED PRODUCTS MACHINE OPERATORS**

**Food and Related Products Machine Operators** operate and monitor machines which slaughter animals, process meat, process foodstuffs and related products, and process tobacco.

#### **UNIT GROUP 8161 FOOD AND RELATED PRODUCTS MACHINE OPERATORS**

**Food and Related Products Machine Operators** operate and monitor machines which slaughter animals, process meat, process foodstuffs and related products, and process tobacco.

**Tasks include:**

- a) operating machines used to slaughter animals and to cut animal carcasses or fish into standard pieces;
- b) operating machines which pasteurise, homogenise and heat-treat milk and cream;
- c) operating machinery used for the production of flour, food and animal feed, and for processing rice;
- d) operating machines which mix and blend flour with other ingredients to prepare dough for the production of bread, pastries, pasta, noodles and related products;

- e) operating machines which extract juice from fruit and vegetables by heating or processing;
- f) operating machines which crush sugar cane or extract juice from sugar beet;
- g) operating machines which process barley and other grains used in making distilled and malt liquors, and controlling the fermentation process;
- h) operating machines which process tobacco in preparation for manufacturing cigarettes, cigar and other tobacco products; and
- i) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8161)*

8161-01	Machine Operator, Meat Processing
8161-02	Machine Operator, Fish Processing
8161-03	Machine Operator, Food Processing
8161-04	Machine Operator, Slaughtering

#### **MINOR GROUP 817 WOOD PROCESSING AND PAPERMAKING PLANT OPERATORS**

**Wood Processing and Papermaking Plant Operators** operate and monitor machinery and equipment which saw, cut and grind wood in preparation for further use, process wood and its materials into pulp, and make paper from pulp.

#### **UNIT GROUP 8171 PULP AND PAPERMAKING PLANT OPERATORS**

**Pulp and Papermaking Plant Operators** operate and monitor machinery and equipment which process materials such as wood, old paper, esparto, straw, scrap-pulp and paper into stock for use in papermaking.

##### **Tasks include:**

- a) operating and monitoring chipper and grinding machines which make pulp from logs;
- b) operating and monitoring digesters which produce pulp from materials such as wood, old paper, esparto, straw or scrap-pulp and scrap paper;
- c) operating and monitoring machines which bleach wood pulp, old paper, esparto, straw or scrap-pulp and scrap paper;
- d) operating and monitoring machines which mix, beat and hydrate pulp and other ingredients to prepare materials to make paper;
- e) cutting old paper, wastepaper and straws into small pieces with a cutting machine to make paper pulp;
- f) operating valves to charge raw materials into digester;
- g) operating and monitoring papermaker machines and equipment in which wet pulp is formed into paper or in which paper is dried, lubricated, wound, slit, and rewound;
- h) operating and monitoring lubrication machines used to impart gloss and finishes on paper surface;
- i) operating and monitoring machinery and equipment used to glaze or impregnate paper with coating mixture; and
- j) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8171)*

8171-01	Operator, Pulp Digester
8171-02	Machine Operator, Chipping
8171-03	Operator, Pulp Beater
8171-04	Machine Operator, Wood Grinding

## UNIT GROUP 8172 WOOD PROCESSING PLANT OPERATORS

**Wood Processing Plant Operators** operate and monitor machinery and equipment for sawing wood, cutting veneer and making plywood, particle board and chipboard, and otherwise prepare wood for further use.

**Tasks include:**

- a) operating and monitoring log in-feed and conveyor systems;
- b) operating and monitoring head saws, resaws and multi-blade saws to saw logs, slabs or wings and remove rough edges from sawn timber;
- c) operating and monitoring machines which cut veneer;
- d) operating and monitoring plywood core-laying machines and hot-plate plywood presses;
- e) operating steam-heated kilns to desiccate wood;
- f) operating equipment which desiccates wood;
- g) operating dryer to dry freshly shaped veneer sheets;
- h) operating machines to clip continuous veneer sheets to specified width; and
- i) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 8172](#))

8172-01	Operator, Sawmill
8172-02	Saw Operator
8172-03	Saw Operator, Wet Timber
8172-04	Saw Operator, Wood

## UNIT GROUP 8173 WOOD PRODUCTS MACHINE OPERATORS

**Wood Products Machine Operators** operate and monitor woodworking machines which perform repetitive work such as sawing, boring, shaping, planning, turning or carving wood to produce wood products.

**Tasks include:**

- a) setting up and operating one or more previously set up machines for sawing, shaping, boring, planning, turning or carving wood; and
- b) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 8173](#))

8173-01	Lathe Operator, Woodworking
8173-02	Machinist, Wood
8173-03	Lathe Operator, Wood (Machine)
8173-04	Machine Operator, Wood Carving

## MINOR GROUP 818 OTHER STATIONARY PLANT AND MACHINE OPERATORS

**Other Stationary Plant and Machine Operators** operate and monitor machinery and plants for processing metal and ceramics, steam boilers, packing, manufacture of silicone chips and related machines.

### UNIT GROUP 8181 GLASS AND CERAMICS PLANT OPERATORS

**Glass and Ceramics Plant Operators** operate and monitor kilns, furnaces and other machinery and equipment used in the manufacture of glass, ceramics, porcelain, tiles or bricks. They operate machines to anneal, harden or decorate glass and ceramics.

#### Tasks include:

- a) operating and monitoring glass-making furnaces to make glass by melting and fusing pre-mixed ingredients;
- b) tending hot- or cold-end spray equipment used to coat glassware with surface hardener;
- c) operating and maintaining machines that press or blow molten glass in moulds to form or shape containers, such as bottles, jars and drinking glasses;
- d) operating hand presses to mould glass into the required shape;
- e) operating drawing kilns to process molten glass into a continuous sheet of flat glass;
- f) operating and monitoring floating-glass production plant;
- g) operating and maintaining finishing machines to grind, drill, sand, bevel, decorate, wash or polish glass or glass products;
- h) setting up and operating press machines to mould ceramic articles from moist clay;
- i) operating machines to mix clay with water to knead it into a suitable plastic condition or semi-liquid form for making ceramic products;
- j) operating and monitoring kilns which bake pottery, porcelain ware and bake bricks and tiles;
- k) operating and monitoring machines for making glaze or abrasives;
- l) operating and monitoring machines which extrude molten glass to form fibreglass filaments; and
- m) observing finished products to identify splits, cracks, breaks, colour and other imperfections.

**Examples of the occupations classified here:** ([refer to index; unit group 8181](#))

8181-01	Machine Operator, Clay Mixing
8181-02	Machine Operator, Glass Mixing
8181-03	Furnace Operator, Glass Production
8181-04	Operator, Retort

### UNIT GROUP 8182 STEAM ENGINE AND BOILER OPERATORS

**Steam Engine and Boiler Operators** maintain and operate various types of steam engines, boilers, turbines and auxiliary equipment to provide power and other utility services for commercial, industrial and institutional buildings, at work sites and aboard ships.

#### Tasks include:

- a) operating and monitoring coal or oil-fired steam engines or boilers;
- b) monitoring and checking the performance of equipment to ensure efficient operation and that boiler water, chemicals and fuel are maintained at required levels;
- c) testing the boiler water quality and taking necessary corrective action such as adding chemicals to prevent corrosion and harmful deposits;

- d) managing the operation of static plant / machinery of the department either steam boiler or internal combustion engine, scheduled / periodic maintenance of the boiler, boiler safety procedures as well as the support system connected to the boiler; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8182)*

8182-01	Plant Operator, Grade R3
8182-02	Boilerman
8182-03	Boiler Operator, Ship
8182-04	Fire Operator, Ship

#### **UNIT GROUP 8183 PACKING, BOTTLING AND LABELLING MACHINE OPERATORS**

**Packing, Bottling and Labelling Machine Operators** operate machines which pack, label and, if needed, add revenue stamps to products, packages and containers, or inspect finished products or parts in compliance with manufacturer's standards, finish and appearance.

**Tasks include:**

- a) inspecting finished products or parts in compliance with manufacturer's finish, physical appearance and standards;
- b) operating machines which wrap and pack various products, including liquids, for storage or shipment;
- c) operating machines which, by gluing or other methods, label products, packages and various containers, or add revenue stamps; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8183)*

8183-01	Operator, Carton
8183-02	Operator, Packing
8183-03	Packer
8183-04	Machine Operator, Labelling

#### **UNIT GROUP 8189 STATIONARY PLANT AND MACHINE OPERATORS NOT ELSEWHERE CLASSIFIED**

This unit group includes Stationary Plant and Machine Operators Not Elsewhere Classified in Minor Group 818: Other Stationary Plant and Machine Operators.

**Tasks include:**

- a) inspecting finished products or parts in compliance with manufacturer's finish, physical appearance and standards;
- b) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8189)*

8189-01	Machine Operator
8189-02	Production Operator
8189-03	Equipment and Machine Operator
8189-04	Heavy Machinery Operator



## SUB-MAJOR 82 **ASSEMBLERS**

**Assemblers** assemble prefabricated parts or components to form products and equipment according to strict specifications and procedures.

### MINOR GROUP 821 **ASSEMBLERS**

**Assemblers** assemble prefabricated parts or components to form products and equipment according to strict specifications and procedures.

#### UNIT GROUP 8211 **MECHANICAL MACHINERY ASSEMBLERS**

**Mechanical Machinery Assemblers** assemble the components or parts of mechanical machinery such as the engine, motor vehicles, turbines and aircraft according to specifications.

**Tasks include:**

- a) assembling the components or parts of mechanical machinery, engines and vehicles according to specifications; and
- b) inspecting and testing completed components and assemblies; and
- c) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 8211](#))

8211-01	Tradesman 2 - Fitter (Machinery), Grade R11
8211-02	Assembler
8211-03	Foreman
8211-04	Assembler, Marine Engine

#### UNIT GROUP 8212 **ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS**

**Electrical and Electronic Equipment Assemblers** assemble the components or parts of electrical and electronic equipment according to specifications.

**Tasks include:**

- a) assembling the components or parts of electrical and electronic equipment according to specifications; and
- b) inspecting and testing completed components and assemblies; and
- c) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 8212](#))

8212-01	Tradesman K2 - Assembler (Aerial), Grade R11
8212-02	Assembler, Electrical Equipment
8212-03	Assembler, Electronic Equipment
8212-04	Assembler, Semi-Conductor

#### UNIT GROUP 8213 **LEATHER, METAL, RUBBER AND PLASTIC PRODUCTS ASSEMBLERS**

**Leather, Metal, Rubber and Plastic Products Assemblers** perform specialised tasks in assembling the leather, metal, rubber or plastic components or parts of various types of products such as toys, sports equipment and other products according to specifications.

**Tasks include:**

- a) assembling the leather, metal, rubber or plastic components or parts of various types of products according to specifications; and
- b) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8213)*

8213-01	Assembler, Leather Products
8213-02	Assembler, Metal Products
8213-03	Assembler, Rubber Products
8213-04	Assembler, Plastic Products

#### **UNIT GROUP 8219 ASSEMBLERS NOT ELSEWHERE CLASSIFIED**

This unit group includes Assemblers Not Elsewhere Classified in Minor Group 821: Assemblers.

**Tasks include:**

- a) assembling components or parts according to specifications;
- b) inspecting finished products or parts in compliance with manufacturer's finish, physical appearance and standards
- c) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8219)*

8219-01	Tradesman K3 - Apparatus Assembler, Grade R9
8219-02	Assembler, Wood Products
8219-03	Assembler, Composite Products
8219-04	Assembler, Textile Products

#### **MINOR GROUP 822 MACHINE-TOOL SETTER-OPERATORS**

**Machine-Tool Setter-Operators** set up and operate various machine tools for use at high tolerance levels.

#### **UNIT GROUP 8221 MACHINE-TOOL SETTER-OPERATORS**

**Machine-Tool Setter-Operators** set up and operate various machine tools for use at high tolerance levels.

**Tasks include:**

- a) setting up one or more types of machine tools to produce articles in standardised series;
- b) operating and monitoring particular types of work machines such as lathes, stamping presses, power shears, metal-bending, milling, sizer, boring, drilling, grinding, honing or metal-sawing machines which may be numerically controlled or linked by an automatic-transfer machine; and
- c) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8221)*

8221-01	Operator, Metal Forming Machine
8221-02	Operator, Watch Production Machine
8221-03	Operator, Needle Production Machine
8221-04	Operator, Cable Production Machine

## SUB-MAJOR 83 **DRIVERS AND MOBILE PLANT OPERATORS**

**Drivers and Mobile Plant Operators** drive trains and motor vehicles, operate mobile industrial and agricultural machinery and equipment, or execute deck duties on board ships and other water-borne craft.

### MINOR GROUP 831 **LOCOMOTIVE ENGINE DRIVERS AND RELATED WORKERS**

**Locomotive Engine Drivers and Related Workers** drive or assist in driving locomotive engines to transport passengers and freight, take charge of and safeguard railway freight trains during runs, control the movement of railway traffic by operating signals, switch rolling stock and make up trains in railway yards, make up trains for hauling in mines and control their movement.

#### UNIT GROUP 8311 **LOCOMOTIVE ENGINE DRIVERS**

**Locomotive Engine Drivers** drive or assist in driving locomotive engines, trains, monorails and similar engines to transport passengers and freight.

**Tasks include:**

- a) operating and maintaining passenger trains;
- b) driving or assisting in driving a steam, electric or diesel-electric locomotive engine;
- c) driving a locomotive to haul carriages underground or on the surface of a mine or quarry;
- d) watching for track hazards, observing signals and indicator gauges; and
- e) operating communications systems to communicate with train crews and traffic controllers to ensure safe operation and scheduling of trains.

**Examples of the occupations classified here:** ([refer to index; unit group 8311](#))

8311-01	Engine Driver (Bukit Bendera Train), Grade R9
8311-02	Locomotive Driver, Grade AA13
8311-03	Train Driver
8311-04	Locomotive Driver

#### UNIT GROUP 8312 **RAILWAY BRAKE, SIGNAL AND SWITCH OPERATORS**

**Railway Brake, Signal and Switch Operators** take charge of and safeguard railway freight trains during runs, control the movement of railway traffic by operating signals, switch rolling stock and make up trains in railway yards, make up trains for hauling in mines and control their movement.

**Tasks include:**

- a) taking charge of and safeguarding freight train during runs;
- b) controlling flow of railway traffic over section of line by operating signals and switches from control panel or signal box;
- c) switching and coupling rolling stock in railway yards and sidings in accordance with orders about loading, unloading and make-up of trains;
- d) making up trains for hauling by locomotive or cable and directing their movement along haulage ways in a mine or quarry; and
- e) checking train systems and equipment such as air conditioning and heating systems, brakes and brake hoses prior to train run.

**Examples of the occupations classified here:** ([refer to index; unit group 8312](#))

8312-01	Braker, Railway
8312-02	Signaller, Railway
8312-03	Shunter, Railway
8312-04	Yardman

## MINOR GROUP 832 CAR, VAN AND MOTORCYCLE DRIVERS

**Car, Van and Motorcycle Drivers** drive and tend motorcycles, motorised tricycles, cars or vans to transport passengers, materials or goods.

### UNIT GROUP 8321 **MOTORCYCLE RIDERS (DRIVERS)**

**Motorcycle Riders (Drivers)** drive and tend motorcycles or motorised tricycles equipped to transport materials, goods or passengers.

**Tasks include:**

- a) driving and tending motorcycles or motorised tricycles to transport materials, goods and passengers;
- b) observing traffic rules and signals;
- c) cleaning and washing vehicle as well as performing maintenance and minor repairs;
- d) keeping a record of journeys; and
- e) delivering messages.

**Examples of the occupations classified here:** [\(refer to index; unit group 8321\)](#)

8321-01	Motorcyclist
8321-02	Rider, Despatch
8321-03	Driver, Rickshaw
8321-04	Driver, Motorised Tricycle

### UNIT GROUP 8322 **CAR, TAXI AND VAN DRIVERS**

**Car, Taxi and Van Drivers** drive and tend motorcars and vans to transport passengers, mail or goods.

**Tasks include:**

- a) driving and tending passengers, vans, cars or taxis;
- b) driving and tending cars, vans or small trucks to deliver mail or goods;
- c) assisting passengers with handling of luggage;
- d) collecting fares, payments for deliveries, or documents certifying deliveries;
- e) operating telecommunications equipment to report location and availability and follow directions of control centre;
- f) determining the most appropriate route;
- g) assisting disabled passengers;
- h) driving office vehicles on official duty, tending and maintaining vehicles, and ensuring the safety of the vehicles and their accessories; and
- i) operating equipment to facilitate the loading and unloading of disabled passengers.

**Examples of the occupations classified here:** [\(refer to index; unit group 8322\)](#)

8322-01	Driver, Grade R3
8322-02	General Worker (Driver), Grade 1
8322-04	Driver, Taxi
8322-05	Chauffeur

### MINOR GROUP 833 **HEAVY TRUCK AND BUS DRIVERS**

**Heavy Truck and Bus Drivers** drive and tend heavy trucks, lorries, buses or street tramcars to transport goods, liquids, heavy materials, mail or passengers.

#### UNIT GROUP 8331 **BUS AND TRAM DRIVERS**

**Bus and Tram Drivers** drive and tend buses or street tramcars to transport passengers, mail or goods.

**Tasks include:**

- a) driving and tending motor bus, trolley bus or motor coach to transport local or long-distance passengers, mail or goods;
- b) driving and tending street tramcar transporting passengers;
- c) opening and closing doors before or after passengers board or alight;
- d) assisting passengers with luggage;
- e) controlling lighting, heating and air-conditioning on buses and trams;
- f) observing traffic rules to ensure safe progress; and
- g) collecting fares or verifying that passengers have the necessary ticket.

**Examples of the occupations classified here:** *(refer to index; unit group 8331)*

8331-01	Driver, Bus
8331-02	Driver, Tram
8331-03	Motor Coach Driver
8331-04	Assistant, Bus Driver

#### UNIT GROUP 8332 **HEAVY TRUCK AND LORRY DRIVERS**

**Heavy Truck and Lorry Drivers** drive and tend heavy motor vehicles to transport goods, liquids and heavy materials over short or long distances.

**Tasks include:**

- a) driving and tending a heavy motor vehicles to transport goods, liquids or heavy materials over short or long distances;
- b) determining the most appropriate routes;
- c) ensuring goods are stowed and securely covered to prevent loss and damage;
- d) assisting with or carrying out loading or unloading operations using various lifting or tipping devices;
- e) carrying out minor maintenance to vehicles, and arranging major maintenance and repairs; and
- f) estimating weights to comply with load limitations, and ensuring the safe distribution of weights.

**Examples of the occupations classified here:** *(refer to index; unit group 8332)*

8332-01	Driver, Lorry
8332-02	Assistant Driver, Lorry
8332-03	Driver, Fire-Engine
8332-04	Driver, Dump Truck

## MINOR GROUP 834 MOBILE PLANT OPERATORS

**Mobile Plant Operators** drive or operate agricultural and other machinery and equipment for handling materials and heavy objects.

### UNIT GROUP 8341 **MOBILE FARM AND FORESTRY PLANT OPERATORS**

**Mobile Farm and Forestry Plant Operators** drive or operate one or more types of motorised, mobile farm or forestry machinery or equipment used in farming, horticultural and forestry operations.

**Tasks include:**

- a) driving or operating tractor or machinery for ploughing, sowing, harvesting, or other special-purpose farm machinery, or similar tractor-drawn equipment;
- b) servicing machinery and performing minor repairs; and
- c) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8341)*

8341-01	Operator, Motorised Farm Equipment
8341-02	Driver, Farm Tractor
8341-03	Driver, Timber Carrier
8341-04	Driver, Winch Truck

### UNIT GROUP 8342 **EARTH-MOVING AND RELATED PLANT OPERATORS**

**Earth-Moving and Related Plant Operators** operate machines to excavate, grade, level, smooth and compact earth or similar materials.

**Tasks include:**

- a) operating and monitoring excavating machines equipped with moveable shovel, grab-bucket or dragline bucket to excavate and move earth, rock, sand, gravel or similar materials;
- b) operating and monitoring machines for digging trenches for sewers, drainage, water, oil, gas or similar pipelines;
- c) operating and monitoring machines equipped with a concave steel blade to move, distribute and level earth, sand and other materials;
- d) operating and monitoring equipment to remove sand, gravel and mud from the bottom of a body of water;
- e) operating and monitoring machines for hammering wooden, concrete or steel piles into the ground;
- f) operating and monitoring power rollers to compact and smooth layers of materials in making roads, pavements and similar work;
- g) operating and monitoring machines which spread and smooth concrete or bituminous or tar preparations to construct roadways, roads or similar work; and
- h) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 8342)*

8342-01	Operator, Backhoe
8342-02	Machine Operator, Trench Digging
8342-03	Operator, Piling-Driver
8342-04	Operator, Bulldozer



## UNIT GROUP 8343 CRANE, HOIST AND RELATED PLANT OPERATORS

**Crane, Hoist and Related Plant Operators** operate and monitor stationary and mobile cranes and other hoisting equipment.

### Tasks include:

- transferring, transporting, moving and organising any type of load such as bulk cargo, break bulk cargo, container, machines, etc. from the ship to the pier or vice versa, to warehouses, workshops, and other places involving moving machinery such as forklifts, tractors, prime movers, transfer cranes, transtainer cranes, straddle cranes, kangaroo cranes, gantry cranes, lauffing cranes and levelling cranes;
- operating and monitoring stationary or mobile cranes to lift, move, position or place equipment and materials;
- operating and monitoring equipment for hoisting, lowering or raising workers and materials on construction sites or in mines;
- operating and monitoring ski-lifts and similar equipment;
- operating and monitoring machinery used to haul ferries or barges with goods, passengers and vehicles across short stretches of water;
- operating and monitoring machinery to open and close bridges for the passage of road and water traffic;
- operating and monitoring cranes equipped with dredging attachments to dredge waterways and other areas;
- operating cranes mounted on boats or barges to lift, move and place equipment and materials; and
- performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 8343\)](#)

8343-01	Driver/ Operator, Crane, Grade R3
8343-02	Operator, Crane
8343-03	Operator, Hoist
8343-04	Operator, Winch

## UNIT GROUP 8344 LIFTING TRUCK OPERATORS

**Lifting Truck Operators** drive, operate and monitor lifting trucks or similar vehicles to transport, lift and stack pallets with goods.

### Tasks include:

- operating and monitoring lifting trucks and similar equipment to load and unload, transport, lift and stack goods and pallets in terminals, harbours, warehouses, factories and other establishments;
- positioning lifting devices under, over, or around loaded pallets, skids and boxes, and securing materials or products to be transported to fixed areas;
- inspecting equipment to identify wear and damage;
- performing routine maintenance on vehicles and equipment; and
- keeping records of work undertaken and breakdowns of vehicles.

**Examples of the occupations classified here:** [\(refer to index; unit group 8344\)](#)

8344-01	Operator, Forklift Truck
8344-02	Operator, Industrial Truck
8344-03	Operator, Lifting Truck
8344-04	Forklift Truck Driver

## MAJOR GROUP 835 SHIPS' DECK CREWS AND RELATED WORKERS

**Ships' Deck Crews and Related Workers** carry out deck duties on board ships and similar duties on board other water-borne craft.

### UNIT GROUP 8351 **SHIPS' DECK CREWS AND RELATED WORKERS**

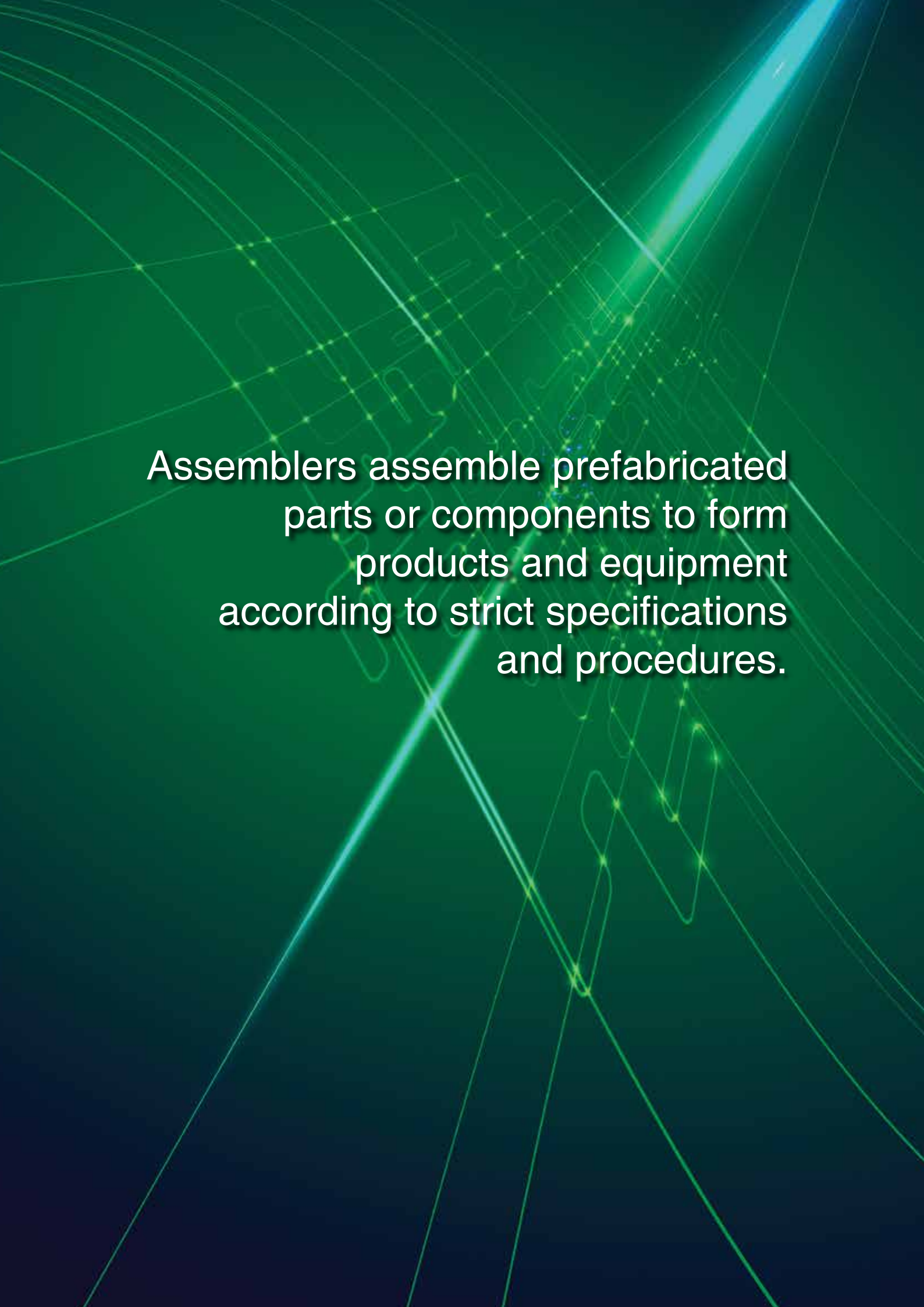
**Ships' Deck Crews and Related Workers** carry out deck duties on board ships and similar duties on board other water-borne craft.

**Tasks include:**

- a) standing look-out watches at sea and when entering or leaving harbours or other narrow waters;
- b) steering the ship according to instructions;
- c) handling ropes and wires, and operating mooring equipment;
- d) maintaining and operating ship equipment, cargo gear, rigging, life-saving and fire-fighting appliances;
- e) performing deck and hull cleaning, scraping, painting and other maintenance duties as required; and
- f) breaking out, rigging and stowing cargo-handling gear, stationary rigging and running gear.

**Examples of the occupations classified here:** (*refer to index; unit group 8351*)

8351-01	Helmsman
8351-02	Driver, Boat
8351-03	Rower, Canoe
8351-04	Ship Quartermaster

The background is a dark green gradient with a complex network of glowing green lines and dots. Some lines are straight and diagonal, while others are curved. Small, bright green dots are scattered along these lines, creating a sense of depth and movement. A prominent, bright green beam of light enters from the top right corner, casting a glow across the scene.

Assemblers assemble prefabricated  
parts or components to form  
products and equipment  
according to strict specifications  
and procedures.





# 9

## ELEMENTARY OCCUPATIONS



## **91 CLEANERS AND HELPERS**

### **911 DOMESTIC, HOTEL AND OFFICE CLEANERS AND HELPERS**

- 9111 Domestic Cleaners and Helpers
- 9112 Cleaners and Helpers in Offices, Hotels and Other Establishments

### **912 VEHICLE, WINDOW, LAUNDRY AND OTHER HAND CLEANING WORKERS**

- 9121 Hand Launderers and Ironers
- 9122 Vehicle Cleaners
- 9123 Surface and Window Cleaners
- 9129 Other Cleaning Workers not Elsewhere Classified

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## **92 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS**

### **921 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS**

- 9211 Crop Farm Labourers
- 9212 Livestock Farm Labourers
- 9213 Mixed Crop and Livestock Farm Labourers
- 9214 Garden and Horticultural Labourers
- 9215 Forestry Labourers
- 9216 Fishery and Aquaculture Labourers
- 9219 Agricultural, Forestry, Farming, and Fishery Labourers Not Elsewhere Classified

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## **93 MINING, CONSTRUCTION, MANUFACTURING AND TRANSPORT LABOURERS**

### **931 MINING AND CONSTRUCTION LABOURERS**

- 9311 Mining and Quarrying Labourers
- 9312 Civil Engineering Labourers
- 9313 Building Construction Labourers

### **932 MANUFACTURING LABOURERS**

- 9321 Hand Packers
- 9329 Manufacturing Labourers Not Elsewhere Classified





### **933 TRANSPORT AND STORAGE LABOURERS**

- 9331 Hand or Pedal Vehicle Drivers
- 9332 Animal-Drawn Machinery and Vehicle Drivers
- 9333 Transport and Storage Labourers
- 9334 Shelf Fillers

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## **94 FOOD PREPARATION ASSISTANTS**

### **941 FOOD PREPARATION ASSISTANTS**

- 9411 Fast Food Preparers
- 9412 Kitchen Helpers

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## **95 STREET AND RELATED SALES AND SERVICE WORKERS**

### **951 STREET AND RELATED SERVICE WORKERS**

- 9511 Street and Related Service Workers

### **952 STREET VENDORS (EXCLUDING FOOD)**

- 9521 Street Vendors (Excluding Food)

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## **96 REFUSE WORKERS AND OTHER ELEMENTARY WORKERS**

### **961 REFUSE COLLECTORS**

- 9611 Refuse Collectors
- 9612 Refuse and Recyclable Waste Sorters
- 9613 Sweepers and Related Labourers

### **962 OTHER ELEMENTARY WORKERS**

- 9621 Messengers, Package Deliverers and Luggage Porters
- 9622 Odd-Job Persons
- 9623 Meter Readers and Vending-Machine Collectors
- 9624 Water and Firewood Collectors
- 9625 Attendants
- 9629 Elementary Workers Not Elsewhere Classified

SUB-MAJOR GROUP

91

92

93

94

95

96

91. CLEANERS AND HELPERS

92. AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS

93. MINING, CONSTRUCTION, MANUFACTURING AND TRANSPORT LABOURERS

94. FOOD PREPARATION ASSISTANTS

95. STREET AND RELATED SALES AND SERVICE WORKERS

96. REFUSE WORKERS AND OTHER ELEMENTARY WORKERS

# MAJOR GROUP 9 ELEMENTARY OCCUPATIONS

## Description

Perform simple, routine and non-systematic tasks which mainly require the use of handheld tools or with the assistance of simple machines, and in some cases considerable physical effort

## Skill Level

Most occupations in this major group require skills at the first level

### SUB-MAJOR 91 CLEANERS AND HELPERS

**Cleaners and Helpers** perform various tasks in private households, hotels, offices, hospitals and other establishments, as well as in aircraft, train coaches, trams and similar vehicles, in order to keep the interiors and fixtures clean, or launder and press garments by hand.

#### MINOR GROUP 911 DOMESTIC, HOTEL AND OFFICE CLEANERS AND HELPERS

**Domestic, Hotel and Office Cleaners and Helpers** sweep, vacuum, clean, wash, polish, take care of household linen, purchase household supplies; perform various tasks in order to keep clean and tidy the interiors and fixtures of hotels, offices and other establishments, as well as aircraft, trains, buses and similar vehicles.

#### UNIT GROUP 9111 DOMESTIC CLEANERS AND HELPERS

**Domestic Cleaners and Helpers** sweep, vacuum clean, wash, polish, take care of household linen, purchase household supplies, prepare food, serve meals and perform various other domestic duties.

#### Tasks include:

- a) sweeping, vacuum cleaning, polishing and washing floors and furniture, or washing windows and other fixtures;
- b) washing, ironing and cleaning linen and other textiles;
- c) washing dishes;
- d) preparing, cooking and serving meals and refreshments;
- e) purchasing food and other various household supplies;
- f) cleaning, disinfecting and deodorising kitchens, bathrooms and toilets;
- g) cleaning windows and other glass surfaces; and
- h) performing related tasks.

**Examples of the occupations classified here:** (*refer to index; unit group 9111*)

9111-01	Amah
9111-02	Domestic Servant
9111-03	Housemaid
9111-04	Helper, Domestic

#### UNIT GROUP 9112 CLEANERS AND HELPERS IN OFFICES, HOTELS AND OTHER ESTABLISHMENTS

**Cleaners and Helpers in Offices, Hotels and Other Establishments** perform various cleaning tasks in order to keep clean and tidy the interiors and fixtures of hotels, offices and other establishments, as well as aircraft, trains, buses and similar vehicles.

**Tasks include:**

- a) sweeping or vacuum-cleaning, washing and polishing floors, furniture and other fixtures in buildings, coaches, buses, trams, trains and aircraft;
- b) making beds, cleaning bathrooms, supplying towels, soap and related items;
- c) cleaning kitchens and generally helping with kitchen work, including dishwashing;
- d) picking up rubbish, emptying dustbins and taking rubbish to disposal areas for removal; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9112)*

9112-01	Chambermaid
9112-02	Cleaner, Hotel
9112-03	Cleaner, Office
9112-04	Washer

#### MINOR GROUP 912 VEHICLE, WINDOW, LAUNDRY AND OTHER HAND CLEANING WORKERS

**Vehicle, Window, Laundry and Other Hand Cleaning Workers** clean windows, showcases or other surfaces of buildings or vehicles and iron, launder or dry-clean linen and other textiles by hand.

#### UNIT GROUP 9121 HAND LAUNDERERS AND IRONERS

**Hand Launderers and Ironers** iron or dry-clean linen and other textiles by hand.

**Tasks include:**

- a) laundering and ironing linen, clothing, fabrics and similar articles by hand in a laundry or other establishment;
- b) cleaning clothes, fabrics, leather goods and similar articles by hand and with chemical solutions in a dry-cleaning or other establishment;
- c) replacing buttons and making minor repairs;
- d) placing articles on shelves and hanging articles for delivery and collection; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9121)*

9121-01	Worker, Laundry and Dry Cleaning
9121-02	Ironer
9121-03	Dry-Cleaner
9121-04	Presser

#### UNIT GROUP 9122 VEHICLE CLEANERS

**Vehicle Cleaners** wash, clean and polish vehicles.

**Tasks include:**

- a) cleaning, washing and polishing cars and other vehicles by hand or machine;
- b) vacuuming vehicle interiors and dry-cleaning carpets and upholstery;
- c) applying cleaning agents to remove stains from vehicle interiors;
- d) washing tyres and wheel arches and blackening tyres;

- e) washing and polishing vehicle windows;
- f) emptying and cleaning compartments in vehicles; and
- g) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9122)*

9122-01	Cleaner, Vehicles
9122-02	Washer, Vehicles (Hand)
9122-03	Washer, Auto-polish
9122-04	Worker, Auto-sanding

#### **UNIT GROUP 9123 SURFACE AND WINDOW CLEANERS**

**Surface and Window cleaners** wash and polish windows, other glass or non-glass surfaces.

**Tasks include:**

- a) washing windows or other glass or non-glass surfaces with water or various solutions, drying and polishing them;
- b) using ladders, swinging scaffolds, bosun's chairs, hydraulic bucket trucks and other equipment to reach and clean windows in multi-storey buildings;
- c) selecting appropriate cleaning or polishing methods; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9123)*

9123-01	Cleaner, Window
9123-02	Cleaner, Sliding Door
9123-03	Cleaner, Surface

#### **UNIT GROUP 9129 OTHER CLEANING WORKERS NOT ELSEWHERE CLASSIFIED**

This unit group includes Other Cleaning Workers Not Elsewhere Classified in Minor Group 912: Vehicle, Window, Laundry and Other Hand Cleaning Workers.

**Tasks include:**

- a) cleaning windows, materials, walls, swimming pools, cooling towers and objects such as carpets using special equipment and cleaning chemicals;
- b) selecting and applying cleaning agents to remove stains;
- c) cleaning stone walls, metal surfaces and fascias using high pressure water cleaners and solvents;
- d) applying chemicals and high pressure cleaning methods to remove micro-organisms from water and filtration systems and using wet vacuums and other suction equipment to remove scale, accumulated dirt and other deposits from swimming pools, cooling tower components and drains; and
- e) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9129)*

9129-01	Worker, Toiletries
9129-02	Worker, Washing
9129-03	Cleaner, Carpet
9129-04	Cleaner, Swimming Pool

## SUB-MAJOR 92 **AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS**

**Agricultural, Forestry, Farming and Fishery Labourers** and related workers perform mainly simple and routine farming, forestry, fishing, hunting or trapping tasks which require the use of simple hand-held tools and a lot of physical energy.

### MINOR GROUP 921 **AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS**

**Agricultural, Forestry, Farming and Fishery Labourers** and related workers perform mainly simple and routine farming, forestry, fishing, hunting or trapping tasks which require the use of simple hand-held tools and a lot of physical energy.

#### UNIT GROUP 9211 **CROP FARM LABOURERS**

**Crop Farm Labourers** perform simple and routine tasks in the production of crops such as fruit, nuts, grains and vegetables.

**Tasks include:**

- a) digging and shovelling to clean ditches or for other purposes;
- b) loading and unloading various crops and other materials;
- c) raking, pitching and stacking hay;
- d) watering and weeding;
- e) picking fruit, vegetables and various plants;
- f) helping with planting, harvesting and general farm work;
- g) carrying out some basic work on produce such as cleaning and peeling fruit; and
- h) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 9211](#))

9211-01	Crop Farm Labourer
9211-02	Crop Farm Labourer, Abaca
9211-03	Crop Farm Labourer, Nuts
9211-04	Crop Farm Labourer, Paddy

#### UNIT GROUP 9212 **LIVESTOCK FARM LABOURERS**

**Livestock Farm Labourers** perform simple and routine tasks in the production of livestock including poultry and insects.

**Tasks include:**

- a) digging and shovelling to clean ditches or for other purposes;
- b) raking, pitching and stacking hay;
- c) watering and weeding;
- d) feeding, watering and cleaning animals and keeping their stockyard clean; and
- e) collecting eggs and placing them in the incubator;
- f) carrying out some basic work on the produce; and
- g) performing related tasks.

**Examples of the occupations classified here:** ([refer to index; unit group 9212](#))

9212-01	Livestock Farm Labourer
9212-02	Livestock Farm Cleaner
9212-03	Livestock Farm Labourer, Dairy
9212-04	Livestock Farm Labourer, Poultry



#### UNIT GROUP 9213 MIXED CROP AND LIVESTOCK FARM LABOURERS

**Mixed Crop and Livestock Farm Labourers** perform simple and routine tasks in the production of crops and livestock.

**Tasks include:**

- a) digging and shovelling to clean ditches or for other purposes;
- b) loading and unloading various crops and other materials;
- c) raking, pitching and stacking hay;
- d) watering and weeding;
- e) picking fruit, vegetables and various plants;
- f) helping with planting, harvesting and general farm work;
- g) feeding, watering and cleaning animals and keeping their stockyard clean;
- h) carrying out some basic work on the produce; and
- i) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 9213\)](#)

9213-01	Farm Labourer
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#### UNIT GROUP 9214 GARDEN AND HORTICULTURAL LABOURERS

**Garden and Horticultural Labourers** perform a variety of simple gardening tasks.

**Tasks include:**

- a) preparing the soil and planting flowers, shrubs and trees in parks or public or private gardens;
- b) trimming and clipping around paths, flower beds and fencing using clippers and edging tools;
- c) pruning shrubs and trees to shape and promote growth using pruning tools;
- d) weeding and tending plants;
- e) spraying shrubs and trees with fertiliser or insecticide;
- f) raking, sweeping and burning leaves, grass or litter;
- g) watering the lawn and plants using a hose, watering can or fixed or portable sprinkler system; and
- h) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 9214\)](#)

9214-01	Grass Cutter
9214-02	Tree Cutter
9214-03	Worker, Playground Maintenance
9214-04	Worker, Golf Course Maintenance

#### UNIT GROUP 9215 FORESTRY LABOURERS

**Forestry Labourers** perform a variety of simple forestry, hunting and trapping tasks.

**Tasks include:**

- a) digging holes for tree planting;
- b) stacking logs and timber;
- c) clearing undergrowth in forest stands;
- d) cleaning up landing areas at logging sites;

- e) digging pits and holes, setting traps, keeping watch and performing other simple tasks connected to hunting and trapping;
- f) carrying out some basic work on the produce;
- g) performing related tasks; and
- h) supervising other workers.

**Examples of the occupations classified here:** *(refer to index; unit group 9215)*

9215-01	Labourer, Forestry
9215-02	Labourer, Hunting
9215-03	Labourer, Trapping
9215-04	Tree Planter

#### UNIT GROUP 9216 FISHERY AND AQUACULTURE LABOURERS

**Fishery and Aquaculture Labourers** perform a variety of simple and routine fishery and aquaculture tasks.

**Tasks include:**

- a) digging the sea-bed and feeding the fish and molluscs that are being cultivated;
- b) cleaning up the ocean floor and feeding the fish and molluscs;
- c) collecting seaweed, sea mosses, clams and other molluscs;
- d) preparing nets, lines and maintaining fishing equipment and other deck equipment;
- e) handling fishing gear to catch fish and other marine life;
- f) cleaning, sorting and packing of fish and seafood in ice and salt;
- g) cleaning the surface of the deck and fish holds;
- h) carrying out some basic work on the produce; and
- i) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9216)*

9216-01	Labourer, Fishery
9216-02	Labourer, Aquaculture
9216-03	Pond Worker, Shellfish
9216-04	Worker, Fish Cage

#### UNIT GROUP 9219 AGRICULTURAL, FORESTRY, FARMING AND FISHERY LABOURERS NOT ELSEWHERE CLASSIFIED

This unit group includes Agricultural, Forestry, Farming and Fishery Labourers Not Elsewhere Classified in Minor Group: 921: Agricultural, Forestry, Farming and Fishery Labourers.

**Tasks include:**

- a) tending, maintaining and cleaning sheds and cages; and
- b) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9219)*

9219-01	Labourer, Crocodile Cage
9219-02	Labourer, Snake Cage

## SUB-MAJOR 93 **MINING, CONSTRUCTION, MANUFACTURING AND TRANSPORT LABOURERS**

**Mining, Construction, Manufacturing and Transport Labourers** perform simple and routine tasks in mining and quarrying, civil engineering, manufacturing and transport activities, and the storage and operation of animal-drawn vehicles and machinery.

### MINOR GROUP 931 **MINING AND CONSTRUCTION LABOURERS**

**Mining and Construction Labourers** perform simple and routine tasks connected to mining, quarrying, civil engineering and building operations.

#### UNIT GROUP 9311 **MINING AND QUARRYING LABOURERS**

**Mining and Quarrying Labourers** perform simple and routine tasks related to mining or quarrying operations.

**Tasks include:**

- a) washing the sluice gauge to recover tin concentrate using the pan;
- b) maintaining or constructing underground installations;
- c) removing wood and steel supports from disused work areas in mines and quarries;
- d) loading, moving, sorting and stacking materials and supplies;
- e) digging out chalk, clay, gravel or sand from open pits;
- f) clearing various obstructions as instructed; and
- g) performing related tasks.

**Examples of the occupations classified here:** (*refer to index; unit group 9311*)

9311-01	Bucket Labourer
9311-02	Labourer, Mining
9311-03	Worker, Tin Mine
9311-04	Dulang Washer

#### UNIT GROUP 9312 **CIVIL ENGINEERING LABOURERS**

**Civil Engineering Labourers** perform a variety of routine tasks related to the building and maintenance of roads, dams and similar constructions.

**Tasks include:**

- a) digging and filling holes and trenches, spreading gravel and related materials and performing other tasks related to building and maintenance of railway tracks and roads;
- b) loading and unloading construction materials and equipment and transporting them to construction sites; and
- c) performing related tasks.

**Examples of the occupations classified here:** (*refer to index; unit group 9312*)

9312-01	Labourer, Construction (Civil Engineering)
9312-02	Labourer, Maintenance (Dam)
9312-03	Site Worker, General
9312-04	Formwork Construction Worker

#### UNIT GROUP 9313 BUILDING CONSTRUCTION LABOURERS

**Building Construction Labourers** perform a variety of routine tasks related to building construction and demolition work.

**Tasks include:**

- a) cleaning used building bricks and doing other simple work on demolition sites;
- b) clearing various obstructions as instructed;
- c) loading and unloading construction materials and equipment and transporting them around building sites; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9313)*

9313-01	Hod Carrier
9313-02	Labourer, Maintenance
9313-03	Worker, Maintenance
9313-04	Labourer, Digging

#### MINOR GROUP 932 MANUFACTURING LABOURERS

**Manufacturing Labourers** and related workers perform simple and routine tasks related to manufacturing which require the use of simple hand-held tools and mainly need a lot of physical energy.

#### UNIT GROUP 9321 HAND PACKERS

**Hand Packers** weigh, pack and label goods and products by hand.

**Tasks include:**

- a) weighing, wrapping, sealing and packing goods and various products by hand;
- b) filling bottles, tins, boxes, bags and other containers with products by hand;
- c) labelling products, packages and various containers by hand; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9321)*

9321-01	Packer (Hand)
9321-02	Labeller (Hand)
9321-03	Wrapper (Hand)

#### UNIT GROUP 9329 MANUFACTURING LABOURERS NOT ELSEWHERE CLASSIFIED

This unit group includes Manufacturing Labourers Not Elsewhere Classified in Minor Group 932: Manufacturing Labourers.

**Tasks include:**

- a) carrying out various manufacturing work manually;
- b) moving, lifting, carrying, loading, unloading or washing raw materials or products in various manufacturing industries;
- c) sorting products or components manually; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9329)*

9329-01	Labourer, Manufacturing
9329-02	Sorter
9329-03	Winder, Hand Coil
9329-04	Labourer, Assembling

#### **MINOR GROUP 933 TRANSPORT AND STORAGE LABOURERS**

**Transport and Storage Labourers** propel cycles and similar vehicles to transport passengers or goods, drive animal-drawn vehicles to transport passengers or goods, drive animal-drawn machinery, handle freight, and stock shelves and display areas in stores.

#### **UNIT GROUP 9331 HAND OR PEDAL VEHICLE DRIVERS**

**Hand or Pedal Vehicle Drivers** propel cycles and similar vehicles to transport passengers or goods.

**Tasks include:**

- a) loading or unloading goods, or assisting passengers in getting on or off a vehicle;
- b) moving a vehicle in the desired direction with due regard to other traffic and traffic regulations;
- c) inspecting vehicle components to identify wear and damage;
- d) maintaining vehicles, making minor repairs and installing replacement parts; and
- e) collecting fares or charges.

**Examples of the occupations classified here:** *(refer to index; unit group 9331)*

9331-01	Rickshaw Puller
9331-02	Pedal Vehicle Driver

#### **UNIT GROUP 9332 ANIMAL-DRAWN MACHINERY AND VEHICLE DRIVERS**

**Animal-Drawn Machinery and Vehicle Drivers** drive animal-drawn vehicles to transport passengers or goods usually in connection with farming.

**Tasks include:**

- a) harnessing animals and hitching them to vehicles or machinery;
- b) loading or unloading goods, or assisting passengers in getting on or off a vehicle;
- c) driving animals in the desired direction with due regard to other traffic and traffic regulations;
- d) collecting fares or charges;
- e) driving animals to haul wagons in mines or quarries;
- f) driving animals hitched to farm or other machinery;
- g) driving working elephants;
- h) maintaining vehicles or machinery, making minor repairs and installing replacement parts; and
- i) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9332)*

9332-01	Driver, Animal-Drawn Vehicle
9332-02	Driver, Bullock Cart
9332-03	Driver, Animal Train
9332-04	Mahout

#### UNIT GROUP 9333 TRANSPORT AND STORAGE LABOURERS

**Transport and Storage Labourers** carry out tasks such as packing, carrying, loading and unloading furniture and other household items, or loading and unloading ship and aircraft cargo and other freight, or carrying and stacking goods in various warehouses.

**Tasks include:**

- a) packing office or household furniture, machines, appliances and related goods to be transported from one place to another;
- b) conveying materials from or around the work area in an industrial establishment;
- c) assisting in tying down loads and covering them with tarpaulin;
- d) carrying goods to be loaded on or unloaded from vans, trucks, wagons, ships or aircraft;
- e) carrying and stacking goods in warehouses and similar establishments;
- f) operating an electric powered forklift to transport goods in the warehouse;
- g) loading goods into and unloading from the trailer;
- h) ordering and replacing goods taken, stock, entering data and checking products to be shipped against shipping orders;
- i) taking charge of regular maintenance of forklift; and
- j) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9333)*

9333-01	Freight Worker
9333-02	Docker
9333-03	Worker, Shipyard
9333-04	Stevedore

#### UNIT GROUP 9334 SHELF FILLERS

**Shelf Fillers** stock shelves and display areas and keep stock clean and in order in supermarkets and other retail and wholesale shops.

**Tasks include:**

- a) placing goods neatly in bins and on racks, and stacking bulky goods on the floor;
- b) filling shelves with goods ensuring goods with the earliest use-by dates are at the front of shelves;
- c) removing goods with past due use-by dates;
- d) maintaining shelf order by removing stock belonging in a different location;
- e) noting goods that have been sold and collecting goods needed from the stockroom;
- f) obtaining articles for customers from the shelf or stockroom;
- g) directing customers to location of articles sought;
- h) receiving, opening, unpacking and inspecting for damage merchandise from manufacturers or distributors; and
- i) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9334)*

9334-01	Shelf Filler
9334-02	Stock Filler
9334-03	Stock Handler



## SUB-MAJOR 94 **FOOD PREPARATION ASSISTANTS**

**Food Preparation Assistants** perform a variety of food and beverage preparation duties, clean the kitchen and wash crockery.

### MINOR GROUP 941 **FOOD PREPARATION ASSISTANTS**

**Food Preparation Assistants** perform a variety of food and beverage preparation duties, clean the kitchen and wash crockery.

#### UNIT GROUP 9411 **FAST FOOD PREPARERS**

**Fast Food Preparers** prepare and cook foods and beverages that involve simple preparation processes and a small number of ingredients. They may take orders from customers and serve at counters or tables.

**Tasks include:**

- a) preparing simple or pre-prepared foods and beverages such as sandwiches, burgers, pizzas, salads and coffee;
- b) washing, cutting, weighing and mixing foods for cooking;
- c) operating single-process cooking equipment such as grills, deep-fat fryers or griddles;
- d) cooking pre-prepared food;
- e) cleaning the food preparation area, surfaces and cooking utensils;
- f) ordering and taking delivery of fast food ingredients;
- g) maintaining standards of sanitation, health and safety in the workplace; and
- h) ensuring that food prepared meets the requirements for quality and quantity.

**Examples of the occupations classified here:** (*refer to index; unit group 9411*)

9411-01	Fast Food Preparer
9411-02	Fast Food Cook
9411-03	Short Order Cook

#### UNIT GROUP 9412 **KITCHEN HELPERS**

**Kitchen Helpers** clean tables and kitchen areas, wash dishes, prepare ingredients, and perform various duties to assist cooks and chefs to prepare and serve food and beverages.

**Tasks include:**

- a) cleaning the kitchen, food preparation areas and food serving counters;
- b) assisting cooks and chefs in food preparation by washing, peeling, hammering, cutting, weighing and mixing ingredients;
- c) assembling dishes for serving;
- d) opening packages and storing raw materials in refrigerators, cupboards or other storage areas;
- e) washing dishes and kitchen utensils, and keeping them;
- f) preparing, cooking, filtering and heating simple food;
- g) scraping food from dirty dishes and washing them by hand or placing them in racks or on the conveyor to the dishwashing machine; and
- h) performing related tasks.

**Examples of the occupations classified here:** (*refer to index; unit group 9412*)

9412-01	Kitchen Helper
9412-02	Hand Dish Washer
9412-03	Kitchen Assistant
9412-04	Kitchen Porter

## SUB-MAJOR 95 **STREET AND RELATED SALES AND SERVICE WORKERS**

**Street and Related Sales and Service Workers** prepare goods (not including fast food) for sale and provide various services on the street and in other public places such as stations.

### MINOR GROUP 951 **STREET AND RELATED SERVICE WORKERS**

**Street and Related Service Workers** provide a variety of services on the street and in other public places including cleaning shoes, washing car windows, looking after property and provide other on-the-spot on the street.

#### UNIT GROUP 9511 **STREET AND RELATED SERVICE WORKERS**

**Street and Related Service Workers** provide a variety of services on the street and in other public places including cleaning shoes, washing car windows, handing out leaflets, looking after property and provide other on-the-spot on the street.

**Tasks include:**

- a) selling goods;
- b) ordering goods;
- c) obtaining the materials necessary to perform services;
- d) approaching people on the street to offer services;
- e) cleaning and polishing shoes;
- f) cleaning and polishing the car windows;
- g) helping drivers to find parking and making sure the car is not damaged during the absence of the driver;
- h) handing out leaflets and free newspapers;
- i) receiving immediate payment; and
- j) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9511)*

9511-01	Street Car Washer
9511-02	Errand boy
9511-03	Shoe-Polisher
9511-04	Car Window Washer

### MINOR GROUP 952 **STREET VENDORS (EXCLUDING FOOD)**

**Street Vendors (Excluding Food)** sell usually a limited range of goods or provide services on streets and public places.

#### UNIT GROUP 9521 **STREET VENDORS (EXCLUDING FOOD)**

**Street Vendors (Excluding Food)** sell usually a limited range of goods or provide services from barrows or kiosks on streets and public places.

**Tasks include:**

- a) setting up and displaying merchandise at public places or stands;
- b) ordering or purchasing supplies and storing stocks in barrows or stands;
- c) delivering merchandise, serving customers, collecting payment and giving change; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9521)*

9521-01	Newspaper Vendor
9521-02	Pedlar
9521-03	Hawker

## SUB-MAJOR 96 **REFUSE WORKERS AND OTHER ELEMENTARY WORKERS**

**Refuse Workers and Other Elementary Workers** collect refuse from buildings, yards, streets and other public places or keep streets and other public places clean or perform odd jobs for households or establishments.

### MINOR GROUP 961 **REFUSE COLLECTORS**

**Refuse Collectors** collect, process and recycle items from buildings, yards, streets and other public places, or keep streets and other public places clean.

#### UNIT GROUP 9611 **REFUSE COLLECTORS**

**Refuse Collectors** collect and remove refuse and items for recycling from buildings, yards, streets and other public places.

**Tasks include:**

- a) driving or riding in refuse trucks;
- b) collecting refuse from residential buildings, commercial and industrial establishments;
- c) loading refuse into bins or refuse trucks;
- d) unloading the refuse truck;
- e) collecting stool containers from private residences and other buildings; and
- f) performing related tasks.

**Examples of the occupations classified here:** (*refer to index; unit group 9611*)

9611-01	Worker, Refuse Disposal
9611-02	Scrap Handler
9611-03	Collector, Rubbish
9611-04	Collector, Recycling

#### UNIT GROUP 9612 **REFUSE AND RECYCLABLE WASTE SORTERS**

**Refuse and Recyclable Waste Sorters** identify, collect and sort discarded items that are suitable for recycling at disposal sites and recycling enterprises or in buildings, streets and other public places.

**Tasks include:**

- a) collecting items for recycling from domestic, commercial and industrial premises or from public places such as streets;
- b) sorting paper, glass, plastic, aluminium or other recycling materials by type;
- c) placing these items in designated compartments;
- d) identifying and setting aside items of furniture, equipment, machinery or components that are suitable for repair or re-use;
- e) selling recyclable or reusable materials; and
- f) performing related tasks.

**Examples of the occupations classified here:** (*refer to index; unit group 9612*)

9612-01	Rubbish Sorter
9612-02	Recycling Worker
9612-03	Scrap Merchant
9612-04	Refuse Sorter

#### UNIT GROUP 9613 SWEEPERS AND RELATED LABOURERS

**Sweepers and Related Labourers** sweep and clean streets, parks, airports, stations and other public places.

**Tasks include:**

- a) sweeping streets, parks, airports, stations and similar public places;
- b) operating a mechanical suction sweeper for cleaning roads;
- c) beating dust out of carpets by using a carpet-beater;
- d) cleaning up rubbish and leaves from streets and parks;
- e) cleaning kindergarten grounds; and
- f) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9613)*

9613-01	Sweeper, Road
9613-02	Sweeper, Park
9613-03	Sweeper, Floor
9613-04	Labourer, Odd-Job

#### MINOR GROUP 962 OTHER ELEMENTARY WORKERS

**Other Elementary Workers** include workers who deliver and carry messages and packages, collect money from vending machines, read meters, carry water and collect firewood, collect and issue tickets for parking or events, work as attendants and perform various other elementary work.

#### UNIT GROUP 9621 MESSENGERS, PACKAGE DELIVERERS AND LUGGAGE PORTERS

**Messengers, Package Deliverers and Luggage Porters** carry and deliver messages, packages and other items within an establishment or between establishments, to households and elsewhere, or carry luggage especially at hotels, stations and airports.

**Tasks include:**

- a) assisting the smooth running of the office daily by ensuring the movement of files, delivery and registration of letters, memos and other documents and making photocopies of letters, memos and documents;
- b) delivering messages, packages and other items within an establishment or between establishments, or elsewhere;
- c) performing the duties of a post-runner;
- d) delivering various goods to and from enterprises, shops, households and other places;
- e) carrying and delivering luggage at stations, airports and elsewhere;
- f) collecting and delivering files, messages, documents and other items within or on behalf of an office, industrial establishment or business;
- g) putting up posters or displaying posters and banners in prominent places to advertise entertainment, political events or product; and
- h) providing services to Members of Parliament during parliamentary sittings, distributing letters, brochures and notes as well as monitoring the safety and discipline of MPs and visitors in the house as well as helping to organise books / pamphlets and the Order Paper before the sitting commences; and
- i) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9621)*

9621-01	General Office Assistant, Grade N1
9621-02	Sergeant-at-arms, Grade N11
9621-07	Messenger, Courier
9621-08	Porter, Luggage

#### **UNIT GROUP 9622 ODD-JOB PERSONS**

**Odd-Job Persons** clean, paint and maintain buildings, grounds and facilities, and undertake simple repairs.

**Tasks include:**

- a) maintaining the cleanliness of the area / office building, planting and tending trees, fertilising, pruning trees, applying pesticide to grass and do arranging potted plants for interior decoration;
- b) repairing broken windows, screens, doors, fences, barbecues, picnic tables, shelves, cupboards and other items;
- c) replacing defective items such as light bulbs;
- d) repairing and painting interior and exterior surfaces such as walls, ceilings and fences;
- e) adjusting doors and windows;
- f) replacing tap washers;
- g) putting up handrails and grab rails;
- h) unloading coal or wood and putting it into cellars of private households or establishments; and
- i) performing odd jobs; and
- j) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9622)*

9622-01	General Worker, Grade R1
9622-02	Specialised General Worker, Grade R3
9622-04	Odd-Job Person
9622-05	General Worker

#### **UNIT GROUP 9623 METER READERS AND VENDING-MACHINE COLLECTORS**

**Meter Readers and Vending-Machine Collectors** fill stocks in vending machines and collect money from the machines or from parking meters and other coin-boxes, or read electricity, gas or water meters.

**Tasks include:**

- a) filling storage spaces of vending machines and collecting money from their containers;
- b) collecting money from parking meters and similar coin-boxes;
- c) reading electricity, gas or water meters and recording their consumption; and
- d) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9623)*

9623-01	Meter Reader
9623-02	Money Collector, Vending Machine

#### UNIT GROUP 9624 WATER AND FIREWOOD COLLECTORS

**Water and Firewood Collectors** collect water and wood used for cooking, heating, cleaning and others.

**Tasks include:**

- a) cutting and collecting wood from the forest for sale or as fuel or for own consumption;
- b) collecting water in leather bags, buckets or other containers from rivers, ponds or wells and delivering the water to work sites, the houses of clients or to own household for cleaning, cooking and other uses; and
- c) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 9624\)](#)

9624-01	Firewood Collector
9624-02	Water Carrier

#### UNIT GROUP 9625 ATTENDANTS

**Attendants** are primarily concerned with the provision of services in offices, industrial or business, recreational and related establishments.

**Tasks include:**

- a) attending to patients' needs and maintaining ward cleanliness in hospitals and related establishments;
- b) cleaning laboratory equipment;
- c) operating passenger or goods lift in buildings;
- d) attending to the needs of persons engaged in sports;
- e) collecting parking fees, issuing ticket stubs, directing customers to parking spaces and parking cars;
- f) collecting tickets and admitting visitors to amusement parks and rides, assisting visitors to get on and off rides, and securing and releasing safety belts and bars;
- g) assigning bowling alleys to customers, issuing score sheets, renting out bowling shoes and collecting fees;
- h) scheduling the use of golf courses, tennis courts, fitness clubs and other recreational facilities, collecting fees from players and selling or renting out sports equipment;
- i) cleaning and keeping lavatories in buildings such as offices, theatres, restaurants and other establishments in neat and orderly condition; and
- j) performing related tasks.

**Examples of the occupations classified here:** [\(refer to index; unit group 9625\)](#)

9625-01	Health Assistant, Grade U3
9625-02	Attendant
9625-03	Attendant, Laboratory
9625-04	Attendant, Hospital



#### UNIT GROUP 9629 ELEMENTARY WORKERS NOT ELSEWHERE CLASSIFIED

This unit group includes Elementary Workers Not Elsewhere Classified in Minor Group 962: Other Elementary Workers.

**Tasks include:**

- a) doing general work;
- b) ensuring data on landing and supervision of landing jetty is well maintained and monitored; and
- c) performing related tasks.

**Examples of the occupations classified here:** *(refer to index; unit group 9629)*

9629-01	Jetty Supervisor, Grade N3
9629-02	Unskilled Labourer
9629-03	Worker, Inflatable



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# ARMED FORCES









## **01 MALAYSIAN ARMY (MA)**

### **011 PROFESSIONAL DUTY OFFICERS (MA)**

0111 Professional Duty Officers (MA)

### **012 GENERAL DUTY OFFICERS (MA)**

0121 General Duty Officers (MA)

### **013 PERSONNEL OF OTHER RANKS (MA)**

0131 Personnel of Other Ranks (MA)

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## **02 ROYAL MALAYSIAN NAVY (RMN)**

### **021 GENERAL DUTY OFFICERS (RMN)**

0211 General Duty Officers (RMN)

### **022 PERSONNEL OF OTHER RANKS (RMN)**

0221 Personnel of Other Ranks (RMN)

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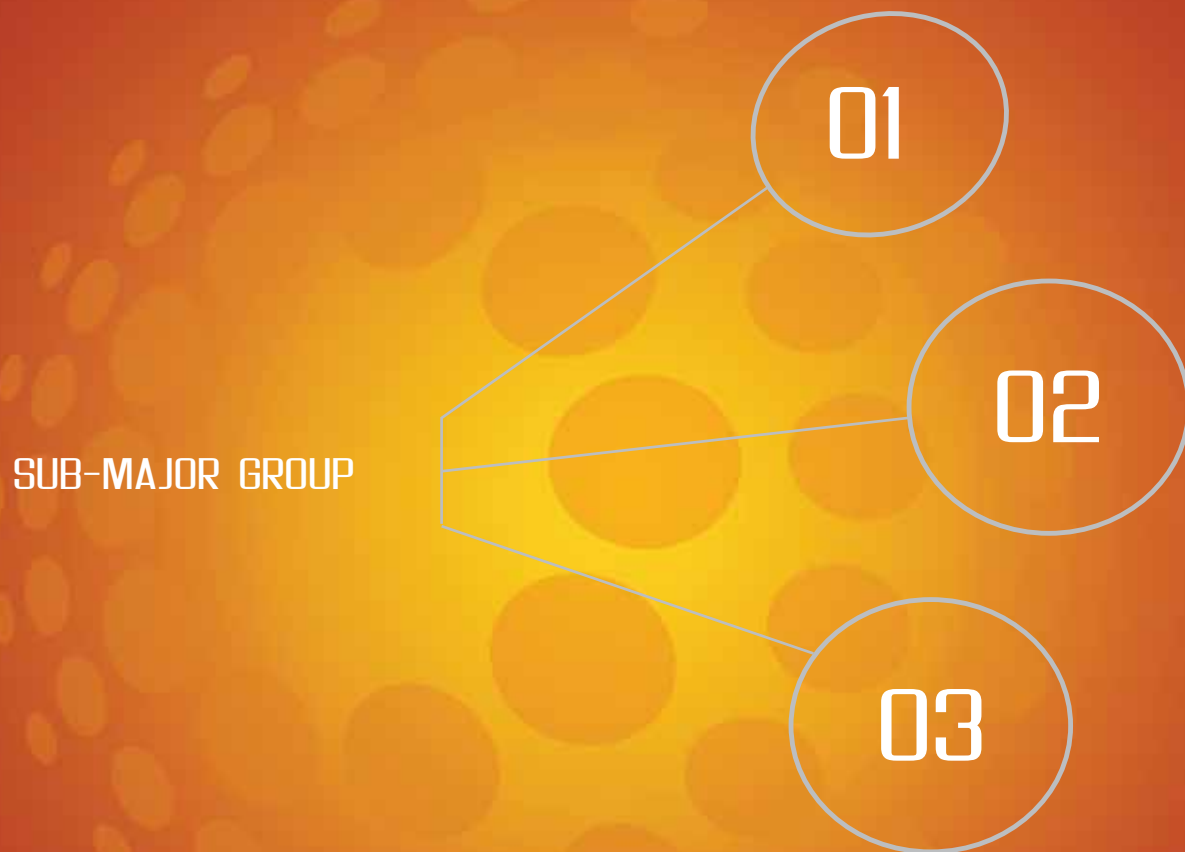
## **03 ROYAL MALAYSIAN AIR FORCE (RMAF)**

### **031 GENERAL DUTY OFFICERS (RMAF)**

0311 General Duty Officers (RMAF)

### **032 PERSONNEL OF OTHER RANKS (RMAF)**

0321 Personnel of Other Ranks (RMAF)



- 01. MALAYSIAN ARMY (MA)
- 02. ROYAL MALAYSIAN NAVY (RMN)
- 03. ROYAL MALAYSIAN AIR FORCE (RMAF)



## Description

The Malaysian Armed Forces (MAF) is divided into three branches, namely the Malaysian Army (MA), Royal Malaysian Navy (RMN) and Royal Malaysian Air Force (RMAF). The main role of the MAF is to defend the sovereignty and territorial integrity of the country against external threats whereas its secondary role is to assist the public authorities in restoring and maintaining public order, enforcing maritime law, defending against internal threats, assisting in disaster relief and national development operations as well as providing support in peacekeeping efforts under the banner of the United Nations (UN).

The MAF service scheme is divided into commissioned officers and other ranks. MAF officers are commissioned by His Majesty the Yang di-Pertuan Agong after undergoing basic military training. Personnel of other ranks also undergo basic military training before entering the service. All serving military personnel are expected to be highly disciplined and subject to the Armed Forces Act 1972. However, general workers who serve under the Ministry of Defence of Malaysia and the military reserve force are not classified as military personnel.

## Skill Level

Reference to skill level is not used in defining the scope of this major group.

### SUB MAJOR 01 MALAYSIAN ARMY (MA)

**The Malaysian Army (MA)** is a branch of the MAF. The primary role of the MA is to defend the land area and strategic interests of the country against external threats and to ensure that the forces remain vigilant and ready to protect the sovereignty and stability of the country. As a secondary role, the MA assists the police and public authorities in maintaining public order and conducting anti-terrorism operations. In addition, the MA assists the public authorities in disaster relief and national development operations.

### MINOR GROUP 011 PROFESSIONAL DUTY OFFICERS (MA)

**Professional Duty Officers (MA)** means individuals who perform support functions such as medical officers, dental officers and pharmacy officers.

#### UNIT GROUP 0111 PROFESSIONAL DUTY OFFICERS (MA)

**Professional Duty Officers (MA)** comprise medical officers, dental officers and pharmacy officers, classified as a combat support group, which provides medical assistance to front-line combatants in wartime. However, in peacetime, this group provides medical services, in order of priority, to the Malaysian Armed Forces covering military personnel, their families, ex-military personnel and civilians in need of their services. In addition, professional duty officers are actively involved in community projects in the rural areas.

#### Tasks include:

- a) managing and administering Armed Forces Clinics and Armed Forces Hospitals;

- b) providing treatment to military personnel, their families, ex-military personnel and civilians;
- c) providing care to rural residents during community projects; and
- d) participating in disaster relief operations and humanitarian missions under the banner of the United Nations (UN)..

**Occupations classified here:** [\(refer to index; unit group 0111\)](#)

0111-01	Medical Officer
0111-01	Dental Officer
0111-02	Pharmacy Officer

#### **MINOR GROUP 012 GENERAL DUTY OFFICERS (MA)**

**General Duty Officers (MA)** are individuals who perform the main military and management functions.

##### **UNIT GROUP 0121 GENERAL DUTY OFFICERS (MA)**

**General Duty Officers (MA)** have the leadership role in combat groups, combat support groups and service support groups. The combat group consists of troops in the forefront of battle during wartime. The combat support group provides assistance to the combat group, while the service support group provides logistical support to all the groups.

##### **Tasks include:**

- a) planning operational assignments at home and abroad;
- b) managing logistics and asset requirements for national defence;
- c) developing training systems and human resources in order to integrate man and technology;
- d) ensuring that the MA personnel stand ready to face any threats from enemies of the state;
- e) ensuring that all high-tech assets of the MA are well maintained and can be deployed at any time;
- f) training subordinate personnel on warfare strategies and knowledge;
- g) planning and assisting the public authorities in maintaining public order; and
- h) planning and implementing efforts to gather, evaluate and disseminate tactical intelligence pertaining to national defence.

**Occupations classified here:** [\(refer to index; unit group 0121\)](#)

0121-01	Royal Malay Regiment Officer
0121-02	Royal Ranger Regiment Officer
0121-03	Royal Armoured Corps Officer
0121-04	Royal Signals Regiment Officer
0121-05	Royal Engineer Regiment Officer
0121-06	Royal Artillery Regiment Officer
0121-07	General Services Corps Officer
0121-08	Royal Medical Corps Officer
0121-09	Royal Military Police Corps Officer
0121-10	Royal Intelligence Corps Officer
0121-11	Royal Logistics Corps Officer
0121-12	Royal Ordnance Corps Officer
0121-13	Royal Electrical and Mechanical Engineer Corps Officer
0121-14	Armed Forces Religious Corps Officer
0121-15	Territorial Army Regiment Officer
0121-16	Border Regiment Officer

### MINOR GROUP 013 PERSONNEL OF OTHER RANKS (MA)

**Personnel of Other Ranks (MA)** form the backbone of the MA. The rank classification of personnel of other ranks comprises recruit, private, lance corporal, corporal, sergeant, staff sergeant, warrant officer II and warrant officer I.

#### UNIT GROUP 0131 PERSONNEL OF OTHER RANKS (MA)

**Personnel of Other Ranks (MA)** assist superiors in ensuring that the mission they have been assigned is successfully executed. In addition, the performance of duties depends on the speciality of the corps/regiment to which they belong.

#### Tasks include:

- a) carrying out the responsibilities planned by superior officers in all aspects of national defence;
- b) updating knowledge of recent wars;
- c) being ready to be deployed to defend the country against enemies of the state;
- d) ensuring that all MA assets are well maintained and can be deployed at any time;
- e) training subordinate personnel in warfare strategies and knowledge;
- f) assisting the public authorities in maintaining public order; and
- g) assisting in efforts to gather, evaluate and disseminate tactical intelligence pertaining to national defence.

**Occupations classified here:** [\(refer to index; unit group 0131\)](#)

0131-01	Member of Royal Malay Regiment
0131-02	Member of Royal Ranger Regiment
0131-03	Member of Royal Armoured Corps
0131-04	Member of Royal Signals Regiment
0131-05	Member of Royal Engineer Regiment
0131-06	Member of Royal Artillery Regiment
0131-07	Member of General Services Corps
0131-08	Member of Royal Medical Corps
0131-09	Member of Royal Military Police Corps
0131-10	Member of Royal Intelligence Corps
0131-11	Member of Royal Logistics Corps
0131-12	Member of Royal Ordnance Corps
0131-13	Member of Royal Electrical and Mechanical Engineer Corps
0131-14	Member of Armed Forces Religious Corps
0131-15	Member of Territorial Army Regiment
0131-16	Member of Border Regiment

## SUB MAJOR 02 ROYAL MALAYSIAN NAVY (RMN)

The **Royal Malaysian Navy (RMN)** is a branch of the Malaysian Armed Forces and the main agency responsible for maritime surveillance and defence operations of the country through surface and sub-surface warfare. In addition, the navy collaborates with maritime enforcement agencies to ensure that the country's territorial waters are closely monitored against any intrusion by foreign elements.

### MINOR GROUP 021 GENERAL DUTY OFFICERS (RMN)

**General Duty Officers (RMN)** are individuals who perform the main military and management functions. The rank classification of general duty officers comprises cadet, midshipman, acting sub-lieutenant, sub-lieutenant, lieutenant, lieutenant commander, commander, captain, first admiral, rear admiral, vice-admiral and admiral.

#### UNIT GROUP 0211 GENERAL DUTY OFFICERS (RMN)

**General Duty Officers (RMN)** are responsible for planning, training, monitoring and supervising activities to ensure the readiness of the naval fleet in the face of surface and sub-surface threats.

##### Tasks include:

- a) updating knowledge on maritime warfare technology in line with the development of fleet strength;
- b) ensuring that the subordinates acquire the latest skills and knowledge on technology development of assets;
- c) ensuring that all MA assets are well maintained and can be deployed at any time;
- d) training subordinate personnel on warfare strategies and knowledge;
- e) coordinating needs to assist the public authorities in maintaining public order; and
- f) planning to enhance fleet capability to ensure a credible and relevant navy.

**Occupations classified here:** *(refer to index; unit group 0211)*

0211-01	Executive Officer
0211-02	Technical Officer
0211-03	Supply Officer

### MINOR GROUP 022 PERSONNEL OF OTHER RANKS (RMN)

**Personnel of Other Ranks (RMN)** assist superiors in ensuring the security of the country's waters. In addition, they must ensure that the mission the naval fleet has been assigned is successfully executed. The ranking classification of personnel of other ranks comprises recruit, ordinary-COD, Junior able rate, able rate, leading rate, petty officer, chief petty officer, warrant officer II and warrant officer I.

#### UNIT GROUP 0221 PERSONNEL OF OTHER RANKS (RMN)

**Personnel of Other Ranks (RMN)** comprise sailors and administrative and management staff who provide support to the navy as a whole. All members play their roles and functions based on their area of expertise in their respective fields.

##### Tasks include:

- a) protecting all economic activities at sea, including exploration of oil, mineral and fishery resources;

- b) facilitating the enforcement of maritime law in the territorial waters and the EEZ in times of war and peace;
- c) helping to control strategic choke points;
- d) helping to combat pirates, intrusion of foreign elements and entry of illegal immigrants; and
- e) acquiring a deeper knowledge of hydrographic surveying/oceanography to assist in carrying out research covering all aspects of hydrography.

**Occupation classified here:** *(refer to index; unit group 0221)*

0221-01	Member of Surface Warfare
0221-02	Member of Submarine Warfare (Sonar)
0221-03	Member of Submarine Warfare (Control)
0221-04	Member of Warfare Tactical Plotters
0221-05	Member of Naval Provost
0221-06	Diver
0221-07	Member of Hydrography
0221-08	Member of Communications
0221-09	Member of Physical Trainers
0221-10	Member of Administration and Finance
0221-11	Member of Logistics Technicians
0221-12	Member of Navy Cooks
0221-13	Member of Officers' Mess Personnel
0221-14	Member of the Brass Band
0221-15	Member of Propulsion Marine Technicians
0221-16	Member of Power and Ordinance Electrical Technicians
0221-17	Member of Electrical and Radio Technicians

### SUB MAJOR 03 **ROYAL MALAYSIAN AIR FORCE (RMAF)**

The **Royal Malaysian Air Force (RMAF)** is responsible for defending the sovereignty and integrity of Malaysian airspace and interests through the effective use of air power. The overall goal of the RMAF is to provide, operate and mobilise the air force to remain ready at all times and to display air power in order to preserve and protect the interests of the country. In addition, the air force also helps the public authorities in restoring and maintaining public order, enforcing airspace law and acting against external or internal threats.

#### **MINOR GROUP 031 GENERAL DUTY OFFICERS (RMAF)**

**General Duty Officers (RMAF)** are individuals who perform key functions in the service of the Royal Malaysian Air Force. This group is divided into branches that take front-line combat positions during wartime such as pilot, navigator, engineer, weapon system operator and others, while the support operations consist of officers who manage the logistics and administration. The ranking of general duty officers in the RMAF comprises Second Lieutenant, RMAF (Lt M TUDM), Lieutenant, RMAF (Lt TUDM), Captain, RMAF (Kapt TUDM), Major, RMAF (Mej TUDM), Lieutenant Colonel, RMAF (Lt Kol TUDM), Colonel, RMAF (Kol TUDM), Brigadier General, RMAF (Brig Jen TUDM), Major General, RMAF (Maj Jen TUDM), Lieutenant General, RMAF (Lt Jen TUDM) and General, RMAF (Jen TUDM).

#### **UNIT GROUP 0311 GENERAL DUTY OFFICERS (RMAF)**

**General Duty Officers (RMAF)** are responsible for planning, training, monitoring and supervising to ensure the sovereignty and security of the country's airspace are protected from intrusion by foreign elements.

#### **Tasks include:**

- a) planning operational assignments at home and abroad;
- b) ensuring that the airspace is secure and safe from external threats;
- c) managing the logistics and assets of the Royal Malaysian Air Force;
- d) developing training systems and human resources in order to integrate man and technology;
- e) ensuring that RMAF personnel stand ready to face any threats from enemies of the state;
- f) ensuring that RMAF assets are well maintained and can be deployed at any time; and
- g) planning for and assisting the public authorities in maintaining public order.

**Occupations classified here:** ([refer to index; unit group 0311](#))

0311-01	General Duty Pilot Branch Officer
0311-02	Navigation Branch Officer
0311-03	Engineering Branch Officer
0311-04	Secretariat Branch Officer
0311-05	Material Branch Officer
0311-06	Air Traffic Control Branch Officer
0311-07	Air Defence Control Branch Officer
0311-08	Fire Brigade Branch Officer
0311-09	Flight Engineer Branch Officer
0311-10	Weapon Sensor Branch Officer



## **MINOR GROUP 032 PERSONNEL OF OTHER RANKS (RMAF)**

**Personnel of Other Ranks (RMAF)** form the backbone of the Royal Malaysian Air Force. The ranking classification of personnel of other ranks in the RMAF comprises recruit, aircraftman II, aircraftman I, senior aircraftman, corporal, sergeant, flight sergeant, warrant officer II and warrant officer I.

### **UNIT GROUP 0321 PERSONNEL OF OTHER RANKS (RMAF)**

**Personnel of Other Ranks (RMAF)** consist of crew and administration and management staff to support the organisation and operations of the Royal Malaysian Air Force as a whole. All personnel play their role and functions based on their area of expertise in their respective fields.

#### **Tasks include:**

- a) helping to control the airspace for peaceful purposes while preventing its use by enemies of the state;
- b) assisting in applying pressure to deal with surface threats either on land or in the air;
- c) helping to increase strength in the air and on land involving airborne refuelling, surveillance and reconnaissance missions; and
- d) helping to carry out operations involving base defence, logistical support and base support.

**Occupations classified here:** *(refer to index; unit group 0321)*

0321-01	Stewardess
0321-02	Airframe Technician
0321-03	Avionics Technician
0321-04	Instrument Technician
0321-05	Weapon Technician
0321-06	Electrical Technician
0321-07	Engine Technician
0321-08	Statistical Assistant
0321-09	Aviation Support Equipment Technician
0321-10	Air Defence Technician
0321-11	Air Traffic Control Assistant
0321-12	Fire Brigade
0321-13	Administrative Assistant
0321-14	Catering Assistant
0321-15	Brass Band
0321-16	Provost
0321-17	Physical Trainer
0321-18	Logistics Technician
0321-19	Cataloguer
0321-20	Logistics System Technician
0321-21	Driver





# INDEX

Occupations According to  
Systematic Order

# INDEX - Systematic Order

MASCO 2013	MASCO 2008	JOB TITLE
<b>1</b>		<b>MANAGERS</b>
<b>1111</b>		<b>LEGISLATORS</b>
1111-01	11112	Prime Minister
1111-02	11115	Deputy Prime Minister
1111-03	11112	Minister
1111-04	11112	Deputy Minister
1111-05	11111	Member of Parliament
1111-06	11111	Chief Minister
1111-07	11116	State Exco
1111-08	11112	Member of the State Legislative Assembly
1111-09	New	Deputy Chief Minister
1111-10	New	Junior Minister
1111-11	New	Menteri Besar
1111-12	New	President of the Senate
1111-13	New	Deputy President of the Senate
1111-14	New	Member of the Senate
1111-15	New	Speaker of the House Representatives
1111-16	New	Deputy Speaker of the House Representatives
<b>1112</b>		<b>SENIOR GOVERNMENT OFFICIALS</b>
1112-01	New	Keeper of the Rulers' Seal
1112-02	11121	Chief Secretary to the Government
1112-03	New	Director-General of Public Service
1112-04	New	Attorney General
1112-05	New	Secretary General of Treasury
1112-06	New	Auditor General
1112-07	New	Inspector-General of Police
1112-08	New	Director-General of Health
1112-09	New	Chief of Defence Force
1112-10	New	Accountant General
1112-11	New	Governor
1112-12	New	Director-General of Customs
1112-13	New	Director-General of Fire and Rescue
1112-14	11121	Secretary-General of Ministry
1112-15	11121	Director-General of Government Department
1112-16	11121	Director-General of Regional Government
1112-17	11121	Head of Government Department
1112-18	New	Chief Statistician
1112-19	11121	Secretary of Commission
1112-20	New	State Secretary
1112-21	11121	Secretary of Government, Non-Legislative
1112-22	11121	Deputy Secretary of Government
1112-23	New	Chief Executive Officer of Statutory Body
1112-24	New	Chief Executive of Statutory Body
1112-25	New	Director-General of Statutory Body
1112-26	New	Director of Statutory Body
1112-27	11123	Ambassador
1112-28	11123	Consul-General
1112-29	11123	High Commissioner of Government
1112-30	11123	Secretary of Embassy
1112-31	11123	Diplomatic Representative of Embassy
1112-32	11113	Mayor
1112-33	New	President of Local Authority
1112-34	New	Chairman of Local Authority
1112-35	New	President of Local Authority
1112-36	New	Chief Executive Officer of Local Authority
1112-37	New	Secretary of the Senate

MASCO 2013	MASCO 2008	JOB TITLE
1112-38	New	Secretary of the House of Representatives
1112-39	New	Police Commissioner
1112-40	New	Chief Administrator Parliament
1112-41	13244	Postmaster General
<b>1113</b>		<b>TRADITIONAL CHIEFS AND HEADS OF VILLAGE</b>
1113-01	11135	Headman, Grade NP27
1113-02	11131	<i>Demang</i>
1113-03	11131	<i>Penggawa</i>
1113-04	11132	Village Head
1113-05	11132	<i>Tok Sidang</i>
1113-06	11133	Native Chief
1113-07	11134	<i>Tok Batin</i>
1113-08	11134	<i>Kapitan</i>
1113-09	11134	<i>Tuai Rumah</i>
1113-10	11136	Traditional Chief
1113-11	New	New Village Head
1113-12	New	<i>Undang</i>
1113-13	New	<i>Luak</i>
1113-14	New	<i>Perut</i>
1113-15	New	<i>Buapak</i>
1113-16	New	<i>Orang Besar Berempat</i>
1113-17	New	<i>Orang Besar Berlapan</i>
1113-18	New	<i>Orang Besar Berenam Belas</i>
1113-19	New	<i>Orang Besar Bertiga Puluh Dua</i>
<b>1114</b>		<b>SENIOR OFFICIALS OF SPECIAL-INTEREST ORGANISATIONS</b>
1114-01	11141	President of Political Party
1114-02	11142	President of Employers' Federation
1114-03	11143	President of Trades Union Congress
1114-04	New	President of Congress of Union of Employees in the Public and Civil Services
1114-05	11145	Secretary-General, Special Interest Organisation
1114-06	11145	Secretary-General, Red Crescent Organisation
1114-07	11145	Secretary-General, Human Rights Organisation
1114-08	11145	Secretary-General, Humanitarian Organisation
1114-09	11145	Secretary-General, Red Cross Organisation
1114-10	11145	Secretary-General, Environmental Protection Organisation
1114-11	11145	Secretary-General, Wildlife Protection Organisation
1114-12	11145	Senior Official of Special Interest Organisation
1114-13	11145	Senior Official of Humanitarian Organisation
<b>1121</b>		<b>MANAGING DIRECTORS AND CHIEF EXECUTIVES</b>
1121-01	11201	Chief Executive Officer
1121-02	11201	Chief Operating Officer
1121-03	New	Executive Director
1121-04	11201	Company Director
1121-05	New	Deputy Executive Director
1121-06	11201	Managing Director
1121-07	11201	Enterprise Director
1121-08	11201	Enterprise Chairman
1121-09	11201	Airport Manager
1121-10	11201	Harbour Manager
1121-11	11201	Radio and Television Manager, Broadcasting
1121-12	11201	Radio and Television Manager, Programme
1121-13	11201	Director-General of Enterprise
1121-14	11202	Chief Executive of Organisation
1121-15	11202	Director-General of Organisation
1121-16	11202	Managing Director of Organisation
1121-17	11202	Director of Organisation
1121-18	11202	Chairperson of Organisation

MASCO 2013	MASCO 2008	JOB TITLE
1121-19	11202	President of Organisation
1121-20	New	Manager
1121-21	New	General Manager
1121-22	New	Chief Legal Officer
1121-23	New	Operations Manager
1121-24	New	Director
1121-25	New	Administrator
1121-26	New	President
<b>1211</b>		<b>FINANCE MANAGERS</b>
1211-01	12111	Finance Manager
1211-02	12111	Account Manager
1211-03	12111	Budget Manager
1211-04	12117	Audit Manager
1211-05	12117	Audit and Risk Management Manager
1211-06	11201	Chief Financial Officer
1211-07	12111	Credit Manager
1211-08	12112	Insurance Manager
1211-09	12113	Fund Manager
1211-10	12114	Treasury Manager
1211-11	12115	Financial and Institution Manager
1211-12	12116	Expenditure Manager
1211-13	12117	Transaction Monitoring Manager
<b>1212</b>		<b>HUMAN RESOURCE MANAGERS</b>
1212-01	12124	Human Resource Manager
1212-02	12125	Training Manager
1212-03	12122	Industrial Relations Manager
1212-04	12123	Occupational Safety and Health Manager
1212-05	New	Personnel Manager
1212-06	New	Recruitment Manager
1212-07	14351	Occupational Safety Manager
1212-08	New	Learning & Organisation Development Manager
1212-09	New	Compensation & Benefits Manager
1212-10	New	Talent and Organisation Performance Manager
<b>1213</b>		<b>POLICY AND PLANNING MANAGERS</b>
1213-01	12131	Policy and Planning Manager
1213-02	New	Strategic Planning Manager
1213-03	New	Corporate Planning Manager
1213-04	New	Policy and Research Manager
<b>1214</b>		<b>BUSINESS SERVICES MANAGERS</b>
1214-01	12141	Production Manager
1214-02	12141	Production and Business Operation Manager
1214-03	12142	Business Service Development Manager
1214-04	12143	Production Planner
1214-05	12143	Production Controller
1214-06	12144	Business Development Manager
1214-07	New	Compliance Manager
<b>1215</b>		<b>ADMINISTRATIVE MANAGERS</b>
1215-01	12151	Administrative Manager
1215-02	New	Administrative Service Manager
<b>1219</b>		<b>BUSINESS SERVICES AND ADMINISTRATION MANAGERS NOT ELSEWHERE CLASSIFIED</b>
1219-01	13243	Purchasing Manager
1219-02	13213	Quality Control Manager
1219-03	13213	Quality Assurance Manager
1219-04	13493	Facilities Manager



MASCO 2013	MASCO 2008	JOB TITLE
1219-05	12191	Corporate Services Manager
<b>1221</b>		<b>SALES AND MARKETING MANAGERS</b>
1221-01	12211	Sales Manager
1221-02	12211	Sales and Marketing Manager
1221-03	12211	Marketing Manager
1221-04	12211	Sales Promotion Manager
1221-05	12212	Market Research Manager
1221-06	12212	Product Manager
1221-07	12212	Brand Manager
1221-08	12213	Supermarket Manager
1221-09	12213	Shopping Centre Manager
1221-10	12214	Outlet Manager
<b>1222</b>		<b>ADVERTISING AND PUBLIC RELATIONS MANAGERS</b>
1222-01	12221	Advertising Manager
1222-02	12222	General Affairs Manager
1222-03	12222	Communications Manager
1222-04	12222	Public Relations Manager
1222-05	12223	Display Manager
1222-06	12212	Customer Service Manager
1222-07	12212	Contact Centre Manager
1222-08	New	Call Centre Manager
1222-09	New	Call Centre Operation Manager
1222-10	New	Contact Centre Team Leader
<b>1223</b>		<b>RESEARCH AND DEVELOPMENT MANAGERS</b>
1223-01	12231	Research and Development Manager
1223-02	New	Product Development Manager
1223-03	New	Research Manager
<b>1311</b>		<b>AGRICULTURAL, FORESTRY AND LIVESTOCK PRODUCTION MANAGERS</b>
1311-01	14315	Park / Estate Manager, Grade G48
1311-02	13111	Forestry Manager
1311-03	13112	Plantation Manager
1311-04	New	Horticulture Manager
1311-05	13112	Production and Operation Manager, Agricultural
1311-06	13112	Agricultural Manager
1311-07	13112	Production and Operation Manager, Livestock
1311-08	13112	Livestock Manager
1311-09	New	Estate Manager
1311-10	14316	Assistant Park / Estate Manager, Grade G27
1311-11	13111	Production and Operation Manager, Forestry
<b>1312</b>		<b>AQUACULTURE AND FISHERIES PRODUCTION MANAGERS</b>
1312-01	13121	Fishery Manager
1312-02	13121	Production and Operation Manager, Fishery
1312-03	New	Aquaculture Operation Manager
1312-04	New	Fishing Operation Manager
1312-05	New	Trawler Manager
<b>1321</b>		<b>MANUFACTURING MANAGERS</b>
1321-01	13211	Manufacturing Manager
1321-02	13211	Production and Operation Manager, Manufacturing
1321-03	13212	Factory Manager
1321-04	New	Manufacturer
<b>1322</b>		<b>MINING MANAGERS</b>
1322-01	13221	Production and Operation Manager, Mine
1322-02	New	Production and Operation Manager, Quarry

MASCO 2013	MASCO 2008	JOB TITLE
1322-03	New	Production and Operation Manager, Oil and Gas Extraction
1322-04	New	Oil and Gas Extraction Manager
1322-05	13222	Mining Manager
1322-06	13223	Quarry Manager
1322-07	New	Photovoltaic Manager
<b>1323</b>		<b>CONSTRUCTION MANAGERS</b>
1323-01	13231	Construction Manager
1323-02	13231	Production and Operation Manager, Construction
1323-03	13232	Contract Manager
1323-04	13233	Operation Manager
1323-05	13233	Project Manager
1323-06	13233	Site Manager
1323-07	13234	Duty Manager
1323-08	New	Project Builder
<b>1324</b>		<b>SUPPLY, DISTRIBUTION AND RELATED MANAGERS</b>
1324-01	13241	Railway Station Master
1324-02	13241	Transport Manager
1324-03	13242	Supply Manager
1324-04	13242	Warehouse Manager
1324-05	13241	Production and Operation Manager, Transport
1324-06	13241	Production and Operation Manager, Transport (Pipeline)
1324-07	13241	Production and Operation Manager, Transport (Freight Traffic)
1324-08	13241	Production and Operation Manager, Transport (Passenger Traffic)
1324-09	13242	Distribution Manager
1324-10	13242	Production and Operation Manager, Storage
1324-11	13242	Storage Manager
1324-12	13245	Shipping Manager
1324-13	13247	Logistics Manager
<b>1411</b>	<b>1411</b>	<b>HOTEL MANAGERS</b>
1411-01	14111	Hotel Manager
1411-02	14391	Hostel Manager, Grade N41
1411-03	14111	Hostel Manager
1411-04	14111	Motel Manager
1411-05	14392	Assistant Hostel Manager, Grade N27
1411-06	14111	Production and Operation Manager, Hotel
1411-07	14111	Boarding-House Manager
1411-08	14111	Guest-House Manager
1411-09	14112	Budget Hotel Manager
1411-10	14113	Front Desk Manager
1411-11	14113	Front Office Manager
1411-12	14114	Food and Beverage Service Manager
1411-13	New	Resort Manager
1411-14	New	Accommodation Manager
<b>1412</b>	<b>1412</b>	<b>RESTAURANT MANAGERS</b>
1412-01	14121	Restaurant Manager
1412-02	14121	Bar Manager
1412-03	14121	Café Manager
1412-04	14121	Canteen Manager
1412-05	14121	Cafe, Bar and Snack-Bar Manager
1412-06	14121	Catering Manager
1412-07	14121	Production and Operation Manager, Restaurant
1412-08	14121	Self-Service Restaurant Manager
1412-09	14122	Discotheque Manager
1412-10	14123	Refreshment Room Manager

MASCO 2013	MASCO 2008	JOB TITLE
<b>1421</b>		<b>RETAIL AND WHOLESALE TRADE MANAGERS</b>
1421-01	14201	Retail Trade Manager
1421-02	14201	Production and Operation Manager, Retail Trade
1421-03	14201	Retail Trade Manager, Store
1421-04	14202	Wholesaler
1421-05	14202	Wholesale Trade Manager
1421-06	14201	Retail Trade Manager, Self-Service Store
1421-07	14201	Retail Trade Manager, Mail-Order Store
1421-08	14202	Export Sales Manager
1421-09	14202	Production and Operation Manager, Wholesale Trade
1421-10	14202	Production and Operation Manager, Wholesale Trade (Export)
1421-11	14202	Production and Operation Manager, Wholesale Trade (Import)
1421-12	14202	Wholesale Trade Manager, Export
1421-13	14202	Wholesale Trade Manager, Import
1421-14	14203	Dealer
1421-15	14204	Retailer
1421-16	14201	Production and Operation Manager, Retail Trade (Store)
1421-17	14201	Production and Operation Manager, Retail Trade (Supermarket)
<b>1511</b>		<b>INFORMATION AND COMMUNICATIONS TECHNOLOGY MANAGERS</b>
1511-01	13304	InfoDesa Field (MID) Manager
1511-02	New	Chief Information Technology Officer
1511-03	13301	Production and Operation Manager, Communications
1511-04	13302	Information Systems Manager
1511-05	13302	Information Technology Manager
1511-06	13303	Computer Services Manager
1511-07	13304	Data Processing Manager
1511-08	New	Application Development Manager
1511-09	New	Chief Information Officer
1511-10	New	Data Operations Manager
1511-11	New	ICT Development Manager
1511-12	New	Information Systems Director
1511-13	New	Internet Service Provider
1511-14	New	Network Manager
1511-15	New	Animation Director
1511-16	New	Audio Visual Manager
1511-17	New	Database Manager
1511-18	New	Computer Security Manager
1511-19	New	Information Technology Project Manager
1511-20	New	Information Technology Infrastructure Manager
1511-21	New	Information Technology Programme Manager
1511-22	New	Information Technology Sales Manager
1511-23	New	Information Technology Resource Manager
1511-24	New	Bioinformatics Manager
<b>1611</b>		<b>CHILD CARE SERVICE MANAGERS</b>
1611-01	13411	Child Care Centre Manager
<b>1612</b>		<b>HEALTH SERVICES MANAGERS</b>
1612-01	13421	Medical Service Director
1612-02	13421	Director of Nursing
1612-03	13422	Health Manager
1612-04	13422	Hospital Administrator
1612-05	13421	Operation Manager, Health
1612-06	13421	Medical Manager (Medical Administration)
1612-07	New	Clinical Director
1612-08	New	Community Health Care Coordinator
1612-09	New	Medical Administrator
1612-10	New	Phytonutrients Manager

MASCO 2013	MASCO 2008	JOB TITLE
1612-11	22655	Health Educator
<b>1613</b>		<b>AGED CARE SERVICES MANAGERS</b>
1613-01	13431	Aged Care Service Manager
1613-02	New	Aged Care Home Director
1613-03	New	Community Aged Care Coordinator
<b>1614</b>		<b>SOCIAL WELFARE MANAGERS</b>
1614-01	13441	Social Work Manager
1614-02	13441	Social Work Operation Manager
1614-03	New	Community Centre Manager
1614-04	New	Welfare Centre Manager
1614-05	New	Family Service Manager
1614-06	New	Housing Service Manager
<b>1615</b>	<b>1345</b>	<b>EDUCATION MANAGERS</b>
1615-01	13451	Education Manager
1615-02	13452	Chancellor
1615-03	New	Principal
1615-04	13452	Head Teacher
1615-05	13451	Operation Manager, Education
1615-06	13452	Dean
1615-07	13452	Dean of Faculty
1615-08	13452	Head of Faculty
1615-09	13452	Vice Chancellor
1615-10	13452	School Director
1615-11	13452	Principal, College
1615-12	13452	Principal, School
1615-13	13452	Principal, University
<b>1616</b>	<b>1346</b>	<b>FINANCIAL AND INSURANCE SERVICES BRANCH MANAGERS</b>
1616-01	13461	Financial and Insurance Branch Manager
1616-02	13462	Financial Branch Manager
1616-03	13463	Insurance Branch Manager
1616-04	New	Bank Manager
1616-05	New	Credit Union Manager
1616-06	New	Insurance Agency Manager
<b>1617</b>		<b>LEGAL MANAGERS</b>
1617-01	14331	Legal and Risk Management Manager
1617-02	New	Legal Manager
<b>1618</b>		<b>PROPERTY MANAGERS</b>
1618-01	14341	Property Maintenance Manager
1618-02	14342	Property Manager
1618-03	New	Real Estate Manager
<b>1619</b>	<b>1349</b>	<b>PROFESSIONAL SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED</b>
1619-01	13491	Production and Operation Manager, Extra Territorial Organisation
1619-02	13492	Design Manager
<b>1621</b>		<b>SPORTS AND RECREATION CENTRE MANAGERS</b>
1621-01	14311	Sports Activity Manager
1621-02	14313	Recreation Manager
1621-03	14313	Travel Agency Manager
1621-04	14313	Park Manager
1621-05	14313	Sports Manager
1621-06	14313	Environmental Manager
1621-07	14313	Casino Manager

MASCO 2013	MASCO 2008	JOB TITLE
1621-08	14313	Club Manager
1621-09	14313	Racecourse Manager
1621-10	14313	Caravan Park Manager
1621-11	14313	Cruise Manager
1621-12	14313	Gaming Manager
1621-13	14313	Sports Centre Manager
1621-14	14313	Stadium Manager
1621-15	14313	Sports and Recreation Manager
1621-16	14313	Camping Site Manager
1621-17	14314	Production and Operation Manager, Stage
1621-18	New	Racing Car Manager
<b>1622</b>		<b>PERSONAL CARE, CLEANING AND RELATED SERVICES MANAGERS</b>
1622-01	14322	Personal Care Service Manager
1622-02	14321	Cleaning Manager
1622-03	13493	Sanitation Manager
1622-04	13493	Garbage Disposal System Manager
1622-05	14321	Laundering, Dry-Cleaning and Ironing Manager
1622-06	14321	Production and Operation Manager, Cleaning
1622-07	14322	Production and Operation Manager, Personal Care Service
1622-08	14322	Housekeeping Service Manager
1622-09	New	Laundry Manager
1622-10	New	Housekeeping Manager
1622-11	13493	Electricity, Water and Sanitation Manager
1622-12	13493	Environmental Systems Manager
1622-13	New	Sewerage Manager
<b>1623</b>		<b>SECURITY MANAGERS</b>
1623-01	14352	Security Manager
1623-02	New	Security Operation Manager
<b>1624</b>		<b>CULTURAL CENTRE, MUSEUM AND LIBRARY MANAGERS</b>
1624-01	New	Library Manager
1624-02	New	Museum Manager
1624-03	New	Archive Manager
1624-04	14312	Cultural Manager
1624-05	New	Art Gallery Manager
1624-06	New	Correctional Service Manager (Archive)
1624-07	14312	Production and Operation Manager, Cultural Activities
1624-08	14314	Stage Manager
1624-09	New	Cinema Manager
1624-10	New	Theatre Manager
1624-11	New	Floor Manager (Broadcasting)
<b>1629</b>		<b>OTHER SERVICES MANAGERS NOT ELSEWHERE CLASSIFIED</b>
<b>2</b>		<b>PROFESSIONALS</b>
<b>2111</b>		<b>PHYSICISTS AND ASTRONOMERS</b>
2111-01	21111	Physicist
2111-02	21111	Physicist, Theoretical
2111-03	21112	Aerodynamicist
2111-04	21112	Ballistician
2111-05	21112	Physicist, Ballistics
2111-06	21112	Physicist, Hydrodynamics
2111-07	21112	Physicist, Solid-State
2111-08	21112	Physicist, Mechanics
2111-09	21112	Hydrodynamicist
2111-10	21112	Thermodynamicist
2111-11	21113	Physicist, Acoustics
2111-12	21113	Physicist, Sound

MASCO 2013	MASCO 2008	JOB TITLE
2111-13	21113	Physicist, Light
2111-14	21113	Physicist, Heat
2111-15	21113	Physicist, Medical
2111-16	21113	Physicist, Thermodynamics
2111-17	21114	Physicist, Electricity and Magnetism
2111-18	21115	Physicist, Electronics
2111-19	21116	Physicist, Nuclear
2111-20	21116	Physicist, Atomic
2111-21	21116	Physicist, Molecular
2111-22	21117	Astrophysicist
2111-23	21117	Astronomer
2111-24	21117	Astronomer, Radio
2111-25	21117	Physicist, Astronomer
2111-26	21118	Cosmologist
2111-27	21119	Physicist, Rheology
2111-28	21119	Rheologist
2111-29	21735	Astronaut
<b>2112</b>		<b>METEOROLOGISTS AND SEISMOLOGISTS</b>
2112-01	21124	Meteorological Officer, Grade C41
2112-02	New	Assistant Meteorological Officer, Grade C27
2112-03	21121	Meteorologist
2112-04	21122	Climatologist
2112-05	21122	Meteorologist-Climatology
2112-06	21123	Meteorologist-Weather Forecasting
2112-07	21123	Seismologist
2112-08	21123	Weather Forecaster
2112-09	21125	Agrometeorologist
2112-10	21126	Meteorologist, Marine
2112-11	21127	Meteorologist, Environmental
2112-12	21128	Meteorologist, Numerical Weather Prediction
2112-13	New	Climate Service Specialist
2112-14	New	Refrigeration Service Specialist
2112-15	New	Weather Service Specialist
<b>2113</b>		<b>CHEMISTS</b>
2113-01	26545	Film Lab Officer, Grade C41
2113-02	21455	Food Technology Officer, Grade C41
2113-03	31112	Assistant Food Technology Officer, Grade C27
2113-04	35215	Assistant Film Laboratory Officer, C27
2113-05	21131	Chemist
2113-06	21132	Chemist, Rubber
2113-07	21132	Chemist, Organic
2113-08	21133	Chemist, Inorganic
2113-09	21133	Chemist, Glass
2113-10	21133	Chemist, Metallurgy
2113-11	21133	Chemist, Corrosion
2113-12	21133	Chemist, Plastics
2113-13	21133	Chemist, Polymer
2113-14	21134	Chemist, Physical
2113-15	21135	Chemist, Analysis
2113-16	21135	Chemist, Research and Development
2113-17	21136	Chemist, Water Purification
2113-18	21137	Chemist, Detergent
2113-19	21137	Chemist, Leather
2113-20	21137	Chemist, Paint
2113-21	21137	Chemist, Quality Control
2113-22	21137	Chemist, Food
2113-23	21137	Chemist, Industrial
2113-24	21137	Chemist, Petroleum



MASCO 2013	MASCO 2008	JOB TITLE
2113-25	21137	Chemist, Dye
2113-26	21137	Chemist, Textile
2113-27	21139	Chemist, Pharmaceutical
2113-28	21139	Chemist, Crystallography
2113-29	21139	Chemist, Nuclear
2113-30	New	Seismic Stratigrapher
2113-31	New	Geochemist
2113-32	New	Paleo & Biotratigrapher
2113-33	New	Geological 2D/3D Reservoir Modeller
2113-34	New	Exploration Geologist
2113-35	New	Sedimentologist
2113-36	New	Petrophysicist
2113-37	New	Basin Modeller
2113-38	New	Carbonisation Specialist
2113-39	New	Condensation Specialist
2113-40	New	Nickel Plating Specialist
2113-41	New	Anodising Specialist
<b>2114</b>		<b>GEOLOGISTS AND GEOPHYSICISTS</b>
2114-01	21148	Geology Officer (Geophysics/ Geology), Grade C41
2114-02	21811	Mineral Officer, Grade C41
2114-03	21138	Geochemical Officer, Grade C41
2114-04	31115	Assistant Geochemistry Officer, Grade C27
2114-05	31175	Assistant Mineral Officer, Grade C27
2114-06	21141	Geophysicist
2114-07	21141	Geologist
2114-08	21142	Geologist, Engineering
2114-09	21143	Geologist, Mining
2114-10	21143	Mineralogist
2114-11	21144	Geologist, Oil
2114-12	21144	Geologist, Petroleum
2114-13	21144	Geologist, Petrology
2114-14	21144	Petrologist
2114-15	21145	Geophysicist, Oceanography
2114-16	21145	Geologist, Marine
2114-17	21145	Geologist, Oceanography
2114-18	21145	Oceanographer
2114-19	21145	Geophysical Oceanographer
2114-20	21145	Geological Oceanographer
2114-21	21146	Geodesist
2114-22	21146	Geophysicist, Geomagnetic
2114-23	21146	Geophysicist, Geomorphology
2114-24	21146	Geophysicist, Seismology
2114-25	21146	Geomagnetician
2114-26	21146	Geomorphologist
2114-27	21147	Geophysicist, Hydrology
2114-28	21147	Hydrogeologist
2114-29	21147	Hydrologist
2114-30	21149	Geologist, Micropalaeontology
2114-31	21149	Geologist, Palaeontology
2114-32	21149	Geologist, Stratigraphy
2114-33	21149	Palaeontologist
2114-34	21149	Stratigraphist
2114-35	21149	Micropalaeontologist
<b>2121</b>		<b>MATHEMATICIANS, ACTUARIES AND STATISTICIANS</b>
2121-01	21202	Actuarial Officer, Grade W41
2121-02	21204	Statistician, Grade E41
2121-03	33141	Assistant Statistics Officer, Grade E27
2121-04	21201	Mathematician

MASCO 2013	MASCO 2008	JOB TITLE
2121-05	21201	Mathematician, Applied Mathematics
2121-06	21201	Mathematician, Pure Mathematics
2121-07	21201	Mathematician, Actuarial Science
2121-08	21203	Statistician, Applied Statistics
2121-09	21203	Statistician, Survey
2121-10	21205	Biometrician
2121-11	21205	Statistician, Biological
2121-12	21205	Statistician, Health
2121-13	21206	Statistician, Economics
2121-14	21206	Statistician, Finance
2121-15	21206	Statistician, Market Research
2121-16	21206	Statistician, Business and Economics
2121-17	21207	Statistician, Education
2121-18	21207	Statistician, Social Science
2121-19	21208	Statistician, Engineering
2121-20	21208	Statistician, Mathematical
2121-21	21208	Statistician, Physical Science
2121-22	21209	Demographer
2121-23	21209	Statistician, Demography
2121-24	21209	Statistician, Public Opinion
2121-25	21209	Statistician, Agricultural
<b>2131</b>		<b>BIOLOGISTS, BOTANISTS, ZOOLOGISTS AND RELATED PROFESSIONALS</b>
2131-01	21337	Wildlife Officer, Grade G41
2131-02	31417	Assistant Wildlife Officer, Grade G27
2131-03	21316	Immunologist
2131-04	21316	Microbiologist
2131-05	21316	Serologist
2131-06	21316	Virologist
2131-07	21316	Histologist
2131-08	21312	Histologist, Plant
2131-09	21311	Biologist
2131-10	21311	Biologist, Fresh Water
2131-11	21311	Biologist, Aquatic
2131-12	21311	Biologist, Marine
2131-13	21311	Biotechnologist
2131-14	21311	Hydrobiologist
2131-15	21311	Taxonomist
2131-16	21312	Taxonomist, Plant
2131-17	21313	Taxonomist, Animal
2131-18	New	Cystologist
2131-19	21312	Cystologist, Plant
2131-20	21313	Cystologist, Animal
2131-21	21312	Botanist
2131-22	21312	Botanist, Economics
2131-23	21312	Botanist, Histology
2131-24	21312	Botanist, Mycology
2131-25	21312	Botanist, Taxonomy
2131-26	21312	Botanist, Soil
2131-27	21315	Botanist, Ecology
2131-28	21316	Geneticist
2131-29	21312	Geneticist, Plant
2131-30	21313	Geneticist, Animal
2131-31	21312	Mycologist
2131-32	21316	Engineer, Genetics
2131-33	21313	Herpetologist
2131-34	21313	Ichthyologist
2131-35	21313	Mammalogist
2131-36	21313	Ornithologist
2131-37	21313	Parasitologist

MASCO 2013	MASCO 2008	JOB TITLE
2131-38	21313	Pisciculturist
2131-39	21313	Fish Culturist
2131-40	21313	Zoologist
2131-41	21313	Zoologist, Embryology
2131-42	21313	Zoologist, Entomology
2131-43	21313	Zoologist, Histology
2131-44	21313	Zoologist, Ichthyology
2131-45	21313	Zoologist, Mammalogy
2131-46	21313	Zoologist, Ornithology
2131-47	21313	Zoologist, Parasitology
2131-48	21313	Zoologist, Pisciculture
2131-49	21313	Zoologist, Taxonomy
2131-50	21315	Zoologist, Ecology
2131-51	21314	Entomologist
2131-52	21315	Ecologist
2131-53	21315	Ecologist, Animal
2131-54	21315	Ecologist, Plant
2131-55	21315	Ecologist, Social
2131-56	21316	Bacteriologist
2131-57	21316	Bacteriologist, Pharmaceutical
2131-58	21316	Bacteriologist, Food
2131-59	21316	Bacteriologist, Molecular
2131-60	21316	Bacteriologist, Fishery
2131-61	21316	Bacteriologist, Industrial
2131-62	21316	Bacteriologist, Agricultural
2131-63	21316	Bacteriologist, Medical
2131-64	21316	Bacteriologist, Soil
2131-65	21316	Bacteriologist, Dairy
2131-66	21316	Bacteriologist, Veterinary
2131-67	New	Technologist, Green Technology
2131-68	New	Animal Behaviourist
<b>2132</b>		<b>FARMING, FORESTRY AND FISHERIES ADVISERS</b>
2132-01	21323	Fisheries Officer, Grade G41
2132-02	21324	Conservator of Forest, Grade G41
2132-03	21325	Agricultural Officer, Grade G41
2132-04	21326	Land Planning Officer, Grade G41
2132-05	31428	Assistant Land Planning Officer, Grade G27
2132-06	31426	Assistant Agricultural Officer, Grade G27
2132-07	31432	Assistant Conservator of Forest, Grade G27
2132-08	31441	Assistant Fisheries Officer, Grade G27
2132-09	21321	Agricultural Officer
2132-10	21321	Planting Adviser
2132-11	21321	Farming Adviser
2132-12	21321	Agricultural Adviser
2132-13	21321	Farm Demonstrator
2132-14	21322	Forestry Officer
2132-15	21322	Forestry Conservator
2132-16	21322	Forestry Adviser
<b>2133</b>		<b>ENVIRONMENTAL PROTECTION PROFESSIONALS</b>
2133-01	21338	Environmental Control Officer, Grade C41
2133-02	21331	Agronomist
2133-03	21332	Crop Research Scientist
2133-04	21332	Agricultural Scientist
2133-05	21333	Floriculturist
2133-06	21333	Horticulturist
2133-07	21333	Olericulturist
2133-08	21333	Pomologist
2133-09	21334	Wood Anatomist

MASCO 2013	MASCO 2008	JOB TITLE
2133-10	21334	Arboriculturist
2133-11	21334	Soil Conservationist
2133-12	21334	Forestry Scientist
2133-13	21334	Soil Scientist
2133-14	21334	Silviculturist
2133-15	21334	Wood Analyst
2133-16	New	Scientist
2133-17	21335	Animal Scientist
2133-18	21336	Environmental Research Scientist
2133-19	New	Conservation Officer
2133-20	New	Conservation Scientist
2133-21	New	Environmental Adviser
2133-22	New	Environmental Auditor
2133-23	New	Environmental Consultant
2133-24	New	Environmental Scientist
2133-25	32574	Assistant Environmental Control Officer, Grade C27
<b>2134</b>		<b>PHARMACOLOGISTS, PATHOLOGISTS AND RELATED PROFESSIONALS</b>
2134-01	21341	Anatomist
2134-02	21342	Biochemist
2134-03	21342	Biochemist, Enzymes
2134-04	21342	Biochemist, Clinical
2134-05	21342	Biochemist, Proteins
2134-06	21342	Biochemist, Steroids
2134-07	21342	Chemist, Biological
2134-08	21343	Biophysicist
2134-09	21344	Endocrinologist
2134-10	21345	Physiologist
2134-11	21345	Physiologist, Endocrinology
2134-12	21345	Physiologist, Epidemiology
2134-13	21345	Physiologist, Animal
2134-14	21345	Physiologist, Neurology
2134-15	21345	Physiologist, Plant
2134-16	21346	Pharmacologist
2134-17	21346	Pharmacologist, Toxicology
2134-18	21346	Pharmacologist, Veterinary
2134-19	21346	Toxicologist
2134-20	21347	Histopathologist
2134-21	21347	Neuropathologist
2134-22	21347	Pathologist
2134-23	21347	Pathologist, Forensic
2134-24	21347	Pathologist, Animal
2134-25	21347	Pathologist, Histopathology
2134-26	21347	Pathologist, Clinical
2134-27	21347	Pathologist, Neuropathology
2134-28	21347	Pathologist, Surgical
2134-29	21347	Pathologist, Medical
2134-30	21347	Pathologist, Plant
2134-31	21347	Pathologist, Veterinary
2134-32	21348	Epidemiologist
2134-33	New	Bio-Fermentation Specialist
2134-34	New	Research and Development Pharmacist
2134-35	New	Bee Cultivation Specialist
<b>2141</b>		<b>INDUSTRIAL AND PRODUCTION ENGINEERS</b>
2141-01	21411	Automation Engineer
2141-02	21411	Robotics Engineer
2141-03	21412	Industrial Engineer
2141-04	21416	Production Engineer
2141-05	21412	Industrial Layout Engineer

MASCO 2013	MASCO 2008	JOB TITLE
2141-06	21413	Communications Analyst
2141-07	21413	Systems Analyst (Except Computers)
2141-08	21413	Organisation and Methods Engineer
2141-09	21413	Planning Engineer
2141-10	21413	Systems Engineer (Except Computers)
2141-11	21413	Systems Design Engineer
2141-12	21414	Work Study Engineer
2141-13	21414	Industrial Efficiency Engineer
2141-14	21414	Time and Motion Engineer
2141-15	21414	Cost Evaluation Engineer
2141-16	21416	Leather Technologist
2141-17	21416	Glass Technologist
2141-18	21416	Packaging Technologist
2141-19	21416	Printing Technologist
2141-20	21416	Ceramics Technologist
2141-21	21416	Cement Technologist
2141-22	21416	Textile Technologist
2141-23	21417	Wood Technologist
2141-24	New	Plant Engineer
2141-25	New	Package Design Engineer
2141-26	New	Analogue Integrated Circuit (IC) Package Design Engineer
2141-27	New	Material Specialist
2141-28	New	Bindery Specialist
2141-29	New	Furniture Upholstery Technologist
2141-30	New	Carving Technologist
<b>2142</b>		<b>CIVIL ENGINEERS</b>
2142-01	21424	Engineer (Civil), Grade J41
2142-02	21423	Executive Officer (Engineering), Grade 41
2142-03	New	Engineer, Grade J41
2142-04	31199	Assistant Engineer, Grade J29
2142-05	31127	Assistant Engineer (Civil), Grade J29
2142-06	31128	Assistant Executive Officer (Engineering), Grade 31
2142-07	MIDA	Executive Officer (Engineering), Grade L5
2142-08	SPAD	Assistant Executive Officer (Technician), Grade L8
2142-09	SPAD	Assistant Executive Officer (Engineering), Grade L8
2142-10	New	Engineer
2142-11	New	Technologist
2142-12	21421	Civil Engineering Technologist
2142-13	21421	Civil Engineer
2142-14	21421	Site Engineer
2142-15	21422	Technologist, Building Materials
2142-16	21422	Civil Engineer, Construction
2142-17	21422	Civil Engineer, Aerodome Construction
2142-18	21422	Civil Engineer, Building Construction
2142-19	21422	Civil Engineer, Dock and Harbour Construction
2142-20	21422	Civil Engineer, Tower Construction
2142-21	21422	Civil Engineer, Chimney Construction
2142-22	21422	Civil Engineer, Structural
2142-23	21422	Civil Engineer, Building Structure
2142-24	21423	Civil Engineer, Highway and Road
2142-25	21423	Civil Engineer, Road Construction
2142-26	21423	Civil Engineer, Railway Construction
2142-27	21425	Civil Engineer, Geotechnics
2142-28	21425	Civil Engineer, Bridge Construction
2142-29	21425	Civil Engineer, Tunnel Construction
2142-30	21426	Civil Engineer, Soil Mechanics
2142-31	21426	Civil Engineer, Irrigation
2142-32	21426	Civil Engineer, Dredging
2142-33	21427	Civil Engineer, Hydraulics

MASCO 2013	MASCO 2008	JOB TITLE
2142-34	21427	Civil Engineer, Hydrology
2142-35	21428	Civil Engineer, Public Health
2142-36	21428	Civil Engineer, Sanitary
2142-37	21429	Facilities Engineer
2142-38	21429	Maintenance Engineer
2142-39	New	Geotechnical Engineer
2142-40	New	Structural Engineer
2142-41	New	Assistant Engineer
<b>2143</b>		<b>ENVIRONMENTAL ENGINEERS</b>
2143-01	21431	Environmental Engineer
2143-02	21428	Sewerage and Sanitation Engineer
2143-03	New	Air Pollution Control Engineer
2143-04	New	Environmental Remediation Specialist
2143-05	New	Environmental Analyst
<b>2144</b>		<b>MECHANICAL ENGINEERS</b>
2144-01	21446	Engineer (Mechanical), Grade J41
2144-02	31158	Assistant Engineer (Mechanical), Grade J29
2144-03	21441	Mechanical Engineering Technologist
2144-04	21441	Mechanical Engineer
2144-05	21442	Industrial Machinery and Tool Engineer
2144-06	21442	Lift Engineer
2144-07	21442	Mechanical Engineer, Instruments
2144-08	21443	Cryogenic Engineer
2144-09	21443	Nuclear Power Engineer
2144-10	21443	Mechanical Engineer, Nuclear Power
2144-11	21444	Heating Ventilation Air-Conditioning and Refrigeration Engineer
2144-12	21445	Diesel Engineer
2144-13	21445	Engine Engineer
2144-14	21445	Jet Engine Engineer
2144-15	21445	Locomotive Engine Engineer
2144-16	21445	Internal Combustion Engine Engineer
2144-17	21445	Mechanical Engineer, Automotive
2144-18	21445	Mechanical Engineer, Diesel
2144-19	21445	Mechanical Engineer, Motor and Engine
2144-20	21445	Mechanical Engineer, Gas Turbine
2144-21	21712	Mechanical Engineer, Naval
2144-22	21445	Motor Engineer
2144-23	21445	Lubrication Engineer
2144-24	21445	Steam Engineer
2144-25	21445	Gas Turbine Engineer
2144-26	21445	Motor-Car Design Engineer
2144-27	21449	Welding Technologist
2144-28	21449	Mechanical Engineer, Agriculture
2144-29	21449	Agricultural Engineer
2144-30	21737	Mechanical Engineer, Aerospace
2144-31	21737	Mechanical Engineer, Aeronautics
2144-32	New	Thermal Engineer
2144-33	New	Thermal Mechanical Solution Engineer
2144-34	New	Hydraulic Design Engineer
2144-35	New	Microprogramming Engineer
2144-36	New	Aero-Material Component Engineer
2144-37	New	Technical Technology Engineer
<b>2145</b>		<b>CHEMICAL ENGINEERS</b>
2145-01	SPA	Engineer (Chemical), GradeJ41
2145-02	21451	Chemical Engineering Technologist
2145-03	21451	Chemical Process Technologist
2145-04	21451	Chemical Engineer



MASCO 2013	MASCO 2008	JOB TITLE
2145-05	31165	Assistant Chemical Engineer, Grade J29
2145-06	21451	Chemical Process Engineer
2145-07	21452	Fuel Technologist
2145-08	21453	Paint Technologist
2145-09	21453	Paint Engineer
2145-10	21453	Varnish Engineer
2145-11	21454	Fertiliser Engineer
2145-12	21455	Chemical Engineer, Pharmaceutical
2145-13	21456	Alcohol Technologist
2145-14	21456	Brewing Technologist
2145-15	21456	Food and Drink Technologist
2145-16	21456	Food Chemical Engineer
2145-17	21457	Fibre Technologist
2145-18	21457	Plastics Technologist
2145-19	21457	Polymer Technologist
2145-20	21458	Rubber Technologist
2145-21	21458	Paper Technologist
2145-22	21458	Tyre Technologist
2145-23	New	Briquetting Plant Engineer
2145-24	New	Freeze Dried Technologist
2145-25	New	Biodynamic Compost Expert
2145-26	New	Moringa Specialist
2145-27	New	Aqua Research and Development Nutritionist
<b>2146</b>		<b>MINING ENGINEERS, METALLURGISTS AND RELATED PROFESSIONALS</b>
2146-01	21461	Mining Engineer
2146-02	21462	Metal Mining Engineer
2146-03	21463	Coal Mining Engineer
2146-04	21463	Non-Metal Mining Engineer
2146-05	21463	Diamond Mining Engineer
2146-06	21464	Petroleum Mining Engineer
2146-07	New	Natural Gas Mining Engineer
2146-08	21465	Metal Testing Engineer
2146-09	New	Metallurgist
2146-10	21462	Metallurgist, Radioactive Minerals
2146-11	21462	Metallurgist, Assayer
2146-12	21465	Metallurgist, Extractive
2146-13	21465	Metallurgist, Foundry
2146-14	21466	Metallurgist, Physics
2146-15	21465	Extractive Technologist
2146-16	21462	Assayer
2146-17	New	Petroleum and Natural Gas Engineer
2146-18	21452	Petroleum Engineer
2146-19	21452	Gas Engineer
2146-20	21452	Natural Gas Production and Distribution Engineer
2146-21	New	Casting Engineer
<b>2149</b>		<b>ENGINEERING PROFESSIONALS (EXCLUDING ELECTROTECHNOLOGY) NOT ELSEWHERE CLASSIFIED</b>
2149-01	21656	Quantity Surveyor, Grade J41
2149-02	21657	Building Surveyor, Grade J41
2149-03	21652	Executive Officer (Building Surveyor), Grade 41
2149-04	31191	Assistant Quantity Surveyor, Grade J29
2149-05	New	Assistant Building Surveyor, Grade J29
2149-06	22633	Factory and Machinery Inspector, Grade J41
2149-07	32576	Assistant Factory and Machinery Inspector, Grade J29
2149-08	21652	Quantity Surveyor
2149-09	21491	Project Engineer
2149-10	21491	Process Engineer
2149-11	21492	Quality Assurance Engineer
2149-12	21492	Quality Control Engineer

MASCO 2013	MASCO 2008	JOB TITLE
2149-13	21493	Technical Service Adviser
2149-14	21494	Research Engineer
2149-15	21495	Engineering Store Executive
2149-16	New	Biomedical Engineer
2149-17	New	Explosive Ordnance Engineer
2149-18	New	Marine Salvage Engineer
2149-19	New	Materials Engineer
2149-20	New	Optical Engineer
2149-21	New	Safety Engineer
2149-22	21415	Industrial Safety Engineer
2149-23	21415	Industrial Health and Safety Engineer
2149-24	21415	Industrial Health Engineer
2149-25	New	Quality Engineer
<b>2151</b>		<b>ELECTRICAL ENGINEERS</b>
2151-01	21516	Engineer (Electrical), Grade J41
2151-02	31137	Assistant Engineer (Electrical), Grade J29
2151-03	21511	Electrical Engineering Technologist
2151-04	21511	Electrical Engineer
2151-05	21511	Electrical Systems Engineer
2151-06	21511	Electrical Testing Engineer
2151-07	21512	Electrical Engineer, Electric Power Generation
2151-08	21512	Electrical Engineer, High Voltage
2151-09	21512	Power Generation Engineer
2151-10	21513	Electrical Engineer, Electric Power Distribution
2151-11	21513	Electrical Engineer, Electric Power Transmission
2151-12	21513	Electrical Engineer, Electric Traction
2151-13	21513	Power Distribution and Transmission Engineer
2151-14	21513	Electric Power Transmission Engineer
2151-15	21514	Electrical Illuminating Engineer
2151-16	21515	Electrical Engineer, Electromechanical Equipment
2151-17	New	Voltage Regulator Designer
2151-18	New	Thermal/Optic Specialist (LED)
2151-19	New	Cell Engineer
2151-20	New	Electrode Cylindrical Engineer
2151-21	New	Electrode Polymer Engineer
2151-22	New	Laser Welding Cylindrical Engineer
2151-23	New	Prismatic Research Engineer
2151-24	New	Electrolyte Engineer
<b>2152</b>		<b>ELECTRONIC ENGINEERS</b>
2152-01	21527	Engineer (Electronics), Grade J41
2152-02	31145	Assistant Engineer (Electronics), Grade J29
2152-03	21521	Electronic Engineering Technologist
2152-04	21521	Electronics Engineer
2152-05	21522	Railway Signal Engineer
2152-06	21523	Computer Applications Engineer
2152-07	21523	Electronics Engineer, Information Engineering
2152-08	21523	Electronics Engineer, Computer Hardware Design
2152-09	21523	Computer Engineer
2152-10	21523	Computer Engineer, Software
2152-11	21523	Computer Engineer, Hardware
2152-12	21523	Systems Engineer
2152-13	21523	Computer Systems Engineer
2152-14	21523	Management Information System (MIS) Engineer
2152-15	21523	Information Technology Engineer
2152-16	21524	Audio and Video Equipment Engineer
2152-17	21524	Sound System Engineer
2152-18	21525	Electronics Engineer, Semiconductors
2152-19	21525	Semiconductor Engineer

MASCO 2013	MASCO 2008	JOB TITLE
2152-20	21526	Electronics Engineer, Instrumentation
2152-21	21526	Mechatronics Engineer
2152-22	New	Physical Design Verification Engineer
2152-23	New	Pre-Silicon Validation Engineer
2152-24	New	Computer-Aided Design (CAD) Design Automation Engineer
2152-25	New	Computer-Aided Design (CAD) Engineer
2152-26	New	Automation Design Engineer
2152-27	New	Printed Circuit Board (PCB) Design Engineer
2152-28	New	Product Characterisation Engineer
2152-29	New	Platform Signal Integrity Engineer
2152-30	New	Motherboard Designer
2152-31	New	Board Design Engineer
2152-32	New	Embedded System Board Designer
2152-33	New	Hardware Board Design Engineer
2152-34	New	Personal Computer (PC) Motherboard Designer
2152-35	New	Post-Silicon Validation Engineer
2152-36	New	Analogue Integrated Circuit (IC) Designer
2152-37	New	Digital Integrated Circuit (IC) Designer
2152-38	New	Layout Integrated Circuit (IC) Designer
2152-39	New	Wirebond Engineer
<b>2153</b>		<b>TELECOMMUNICATIONS ENGINEERS</b>
2153-01	New	Telecommunications Engineer
2153-02	21531	Telecommunications Engineer, Aerospace
2153-03	21531	Telecommunications Engineer, Radar
2153-04	21531	Telecommunications Engineer, Signal Systems
2153-05	21532	Telecommunications Engineering Technologist
2153-06	21533	Telecommunications Engineer, Microwave
2153-07	21533	Telecommunications Engineer, Radio
2153-08	21533	Telecommunications Engineer, Telephone
2153-09	21533	Telecommunications Engineer, Telegraph
2153-10	21533	Telecommunications Engineer, Television
2153-11	New	Broadcast Engineer
<b>2161</b>		<b>BUILDING ARCHITECTS</b>
2161-01	21611	Architect, Grade J41
2161-02	31126	Assistant Architectural Officer, Grade J29
2161-03	21614	Architect
2161-04	21612	Interior Architect
2161-05	21613	Building Architect
<b>2162</b>		<b>LANDSCAPE ARCHITECTS</b>
2162-01	21622	Landscape Architect, Grade J41
2162-02	31184	Assistant Landscape Architect, Grade J29
2162-03	21621	Landscape Architect
<b>2163</b>		<b>PRODUCT AND GARMENT DESIGNERS</b>
2163-01	21631	Commercial Product Designer
2163-02	21631	Industrial Product Designer
2163-03	21632	Fashion Designer
2163-04	34324	Jewellery Designer
2163-05	21632	Fabric Designer
2163-06	21632	Garment Designer
2163-07	21632	Textile Designer
2163-08	New	Costume Designer
2163-09	34324	Packaging Designer
2163-10	34324	Shoe Designer
<b>2164</b>		<b>TOWN AND TRAFFIC PLANNERS</b>
2164-01	21643	Urban and Rural Planning Officer, Grade J41

MASCO 2013	MASCO 2008	JOB TITLE
2164-02	31185	Assistant Urban and Rural Planning Officer, Grade J29
2164-03	21641	Town Planner
2164-04	21641	Urban and Rural Planner
2164-05	21642	Traffic Engineer
2164-06	21642	Traffic Planner
2164-07	New	Land Planner
<b>2165</b>		<b>CARTOGRAPHERS AND SURVEYORS</b>
2165-01	21654	Geospatialist, Grade J41
2165-02	21655	Surveyor, Grade J41
2165-03	New	Assistant Surveyor, Grade J29
2165-04	21651	Cartographer
2165-05	21651	Cartographer, Marine
2165-06	21658	Photogrammetrist
2165-07	21651	Map Maker
2165-08	21652	Surveyor
2165-09	21653	Mine Surveyor
2165-10	21653	Soil Surveyor
2165-11	21653	Topographic Surveyor
2165-12	21658	Photographic Surveyor
2165-13	21658	Geodesic Surveyor
2165-14	21658	Hydrographic Surveyor
2165-15	21658	Cadastral Surveyor
2165-16	21658	Marine Surveyor
2165-17	21658	Aerial Surveyor
2165-18	New	Land Surveyor
<b>2166</b>		<b>GRAPHIC AND MULTIMEDIA DESIGNERS</b>
2166-01	21661	Designer, Grade B41
2166-02	21662	Web Designer
2166-03	21663	Computer Graphics and Sound Artist
2166-04	21665	Graphic Designer
2166-05	21665	Typographical Designer
2166-06	New	Designer
2166-07	34321	Graphic Artist
2166-08	34321	Designer Artist
2166-09	New	Digital Artist
2166-10	New	Animator
2166-11	New	Illustrator
2166-12	New	Multimedia Designer
2166-13	New	Publication Designer
2166-14	26515	Computer Visualiser Artist
2166-15	New	Graphics Creator
2166-16	New	Group Lead Graphic Artist
2166-17	New	Virtual Environment Designer
2166-18	New	Creative Designer
2166-19	New	Design Architect
2166-20	New	Desktop Publishing Artist
2166-21	New	Graphics Illustrator
2166-22	New	Technical Illustrator
2166-23	New	Screenwriter
2166-24	New	Character Designer
2166-25	New	Multimedia Artist
2166-26	New	Video Game Artist
2166-27	New	Flash Animator
2166-28	New	Flash Designer
2166-29	New	Flash Developer
2166-30	New	Interface Designer
2166-31	New	Web Animator
2166-32	New	2D Animator

MASCO 2013	MASCO 2008	JOB TITLE
2166-33	New	3D Artist
2166-34	New	Visualisation Specialist
2166-35	New	Computer Graphics (CG) Artist
2166-36	New	Layout Artist
<b>2171</b>		<b>SHIP ENGINEERS</b>
2171-01	21712	Ship Engineer
2171-02	21712	Marine Engineer
2171-03	21712	Ship Construction Engineer
2171-04	21714	Hovercraft Architect
2171-05	21714	Naval Architect
2171-06	21714	Marine Architect
2171-07	21737	Flight Engineer
2171-08	21737	Aircraft Engineer
2171-09	21737	Aircraft Design Engineer
2171-10	21737	Aeronautical Engineer
<b>2172</b>		<b>SHIP DECK OFFICERS AND PILOTS</b>
2172-01	21727	Marine Officer, Grade A41
2172-02	31524	Assistant Marine Officer, Grade A29
2172-03	21721	Ship Captain
2172-04	21722	Hovercraft Pilot
2172-05	21722	Ship Pilot
2172-06	21723	Port Captain
2172-07	21723	Harbour Master
2172-08	21724	Ship Navigator
2172-09	21724	Officer, Ship dan Deck
2172-10	21725	Ferry Captain
2172-11	21726	Marine Superintendent (Deck)
<b>2173</b>		<b>AIRCRAFT PILOTS AND RELATED PROFESSIONALS</b>
2173-01	21731	Pilot/ Pilot Examiner, Grade A41
2173-02	JPA	Aircraft Examiner, Grade A41
2173-03	New	Assistant Aircraft Examiner, Grade A29
2173-04	21732	Pilot
2173-05	21733	Flight Navigator
2173-06	21734	Flight Instructor
<b>2174</b>		<b>AIR TRAFFIC CONTROLLERS</b>
2174-01	21742	Air Traffic Control Officer, Grade A41
2174-02	31512	Assistant Air Traffic Control Officer, Grade A29
2174-03	21741	Air Traffic Controller
<b>2175</b>		<b>TRAIN / LOCOMOTIVE CONTROLLERS</b>
2175-01	21751	Railway and Locomotive Operation Officer
2175-02	21751	Railway and Locomotive Operation Controller
2175-03	21752	Permanent-Way Inspector (Railways)
<b>2179</b>		<b>TRANSPORT CONTROLLERS NOT ELSEWHERE CLASSIFIED</b>
2179-01	21791	Load Sheet Officer
2179-02	21792	Shipping Executive
2179-03	New	Logistics Executive
2179-04	21743	Air Cargo Officer
<b>2181</b>		<b>MINING PROFESSIONALS</b>
2181-01	21812	Mining Executive
<b>2182</b>		<b>MANUFACTURING PROFESSIONALS</b>
2182-01	21821	Manufacturing Executive
2182-02	21822	Quality Assurance Executive

MASCO 2013	MASCO 2008	JOB TITLE
2182-03	25191	Quality Assurance Analyst
2182-04	21822	Quality Control Executive
2182-05	21823	Production Executive
2182-06	21824	Warehouse Executive
2182-07	21824	Store Executive
2182-08	21825	Maintenance Executive
2182-09	21826	Log Officer
2182-10	New	Manufacturing Quality Control Executive
<b>2183</b>		<b>CONSTRUCTION PROFESSIONALS</b>
2183-01	21831	Construction Executive
2183-02	21832	Project Executive
2183-03	New	Site Executive
<b>2211</b>		<b>GENERALIST MEDICAL PRACTITIONERS</b>
2211-01	22112	Medical Officer, Grade UD41
2211-02	JPA	Instructor, Grade U41
2211-03	32126	Assistant Medical Officer, Grade U29
2211-04	22111	Medical Doctor
2211-05	22111	Medical Officer
2211-06	22111	Medical Practitioner
2211-07	22129	Medical Doctor, Insurance Consultancy
2211-08	22129	Medical Doctor, Anaesthesiology
2211-09	22129	Medical Doctor, Gynaecology
2211-10	22129	Medical Doctor, Cardiology
2211-11	22129	Medical Doctor, Neurology
2211-12	22129	Medical Doctor, Obstetrics
2211-13	22129	Medical Doctor, Ophthalmology
2211-14	22129	Medical Doctor, Psychiatry
2211-15	22129	Medical Doctor, Radiology
2211-16	New	Family Medical Practitioner
2211-17	New	General Medical Practitioner
2211-18	New	Physician (General)
2211-19	22655	Health Officer
<b>2212</b>		<b>SPECIALIST MEDICAL PRACTITIONERS</b>
2212-01	22121	Ear, Nose and Throat Specialist
2212-02	22121	Heart Specialist
2212-03	22121	Eye Specialist
2212-04	22122	Anaesthetist
2212-05	22122	Cardiac Anaesthetist
2212-06	22123	Medical Oncologist
2212-07	22123	Radiotherapy Oncologist
2212-08	22124	Psychiatrist
2212-09	22125	Ophthalmologist
2212-10	22126	Cardiologist
2212-11	22128	Neurologist
2212-12	22127	Gynaecologist
2212-13	22129	Obstetrician and Gynaecologist
2212-14	22129	Obstetrician and Gynaecologist, Fertility
2212-15	22129	Obstetrician and Gynaecologist, Oncology
2212-16	22129	Obstetrician and Gynaecologist, Foetomaternal Medicine
2212-17	22129	Surgeon
2212-18	22129	Surgeon, Hepatic
2212-19	22129	Surgeon, Cardiology
2212-20	22129	Surgeon, Cardiothoracic
2212-21	22129	Surgeon, Ophthalmology
2212-22	22129	Surgeon, Orthopaedic
2212-23	22129	Surgeon, Osteopathic
2212-24	22129	Surgeon, Paediatric



MASCO 2013	MASCO 2008	JOB TITLE
2212-25	22129	Surgeon, Transplant
2212-26	22129	Surgeon, Plastic and Reconstructive
2212-27	22129	Surgeon, Neurosurgery
2212-28	22129	Surgeon, Ear, Nose and Throat
2212-29	22129	Surgeon, Thoracic
2212-30	22129	Surgeon, Traumatology
2212-31	22129	Surgeon, Urology
2212-32	22129	Surgeon, Vascular
2212-33	22129	Dermatologist
2212-34	22129	Orthopaedist
2212-35	22129	Otolaryngologist
2212-36	22129	Paediatrician
2212-37	22129	Paediatrician, Gastroenterology
2212-38	22129	Paediatrician, Haematology
2212-39	22129	Paediatrician, Cardiology
2212-40	22129	Paediatrician, Nephrology
2212-41	22129	Paediatrician, Neurology
2212-42	22129	Paediatrician, Oncology
2212-43	22129	Paediatrician, Respiratory
2212-44	22129	Physician
2212-45	22129	Physician, Dermatology
2212-46	22129	Physician, Endocrinology
2212-47	22129	Physician, Gastroenterology
2212-48	22129	Physician, Haematology
2212-49	22129	Physician, Cardiology
2212-50	22129	Physician, Nephrology
2212-51	22129	Physician, Neurology
2212-52	22129	Physician, Rheumatology
2212-53	22129	Physician, Family Medicine
2212-54	22129	Physician, Respiratory Medicine
2212-55	22129	Podiatrist
2212-56	22129	Prosthetist
2212-57	22129	Radiologist
2212-58	22129	Radiologist, Diagnostic
2212-59	22129	Radiologist, Interventional
2212-60	22129	Radiologist, Nuclear Medicine
2212-61	22129	Radiologist, Radiotherapy
2212-62	22129	Urologist
2212-63	22129	Venereologist
<b>2221</b>		<b>NURSING PROFESSIONALS</b>
2221-01	22212	Nurse, Grade U41
2221-02	New	Instructor (Health Science), Grade U41
2221-03	22211	Professional Nurse
2221-04	New	Clinical Nurse
2221-05	New	District Nurse
2221-06	New	Nurse Anaesthetist
2221-07	New	Nurse Educator
2221-08	New	Nurse Practitioner
2221-09	New	Public Health Nurse
2221-10	New	Specialist Nurse
2221-11	32211	Nurse Instructor
2221-12	32211	Nurse
2221-13	32211	Sister
2221-14	32211	Nurse (Public Health)
2221-15	32211	Matron
2221-16	32212	Operation Theatre Nurse
2221-17	32212	Specialised Nurse
2221-18	32212	Orthopaedic Nurse
2221-19	32212	Paediatric Nurse

MASCO 2013	MASCO 2008	JOB TITLE
2221-20	32212	Psychiatric Nurse
2221-21	32213	Occupational Health Nurse
2221-22	32213	Industrial Nurse
<b>2222</b>		<b>MIDWIFERY PROFESSIONALS</b>
2222-01	22221	Professional Midwife
<b>2231</b>		<b>TRADITIONAL AND COMPLEMENTARY MEDICINE PROFESSIONALS</b>
2231-01	22301	Professional Traditional Medical Practitioner
2231-02	22302	Traditional Medical Specialist
2231-03	32305	Acupuncturist
2231-04	32306	Homeopath
2231-05	32307	Naturopath
2231-06	New	Ayurvedic Practitioner
2231-07	New	Herbal Medicine Practitioner
<b>2241</b>		<b>PARAMEDICAL PRACTITIONERS</b>
2241-01	22401	Paramedic
2241-02	New	Advanced Care Paramedic
2241-03	New	Clinical Officer (Paramedical)
2241-04	New	Feldscher
2241-05	New	Primary Care Paramedic
<b>2251</b>		<b>VETERINARIANS</b>
2251-01	22504	Veterinary Officer, Grade G41
2251-02	32404	Assistant Veterinary Officer, Grade G27
2251-03	22501	Veterinarian
2251-04	22501	Veterinary Epidemiologist
2251-05	22502	Veterinary Surgeon
2251-06	22503	Public Health Veterinarian
2251-07	22503	Abattoir Veterinarian
<b>2261</b>		<b>DENTISTS</b>
2261-01	22617	Dental Officer, Grade U41
2261-02	22618	Instructor (Dental Nurse), Grade U41
2261-03	22619	Instructor (Dental Technician), Grade U42
2261-04	22611	Dentist
2261-05	22612	Dentist, Paedodontistry
2261-06	22612	Paedodontist
2261-07	22613	Dentist, Orthodontistry
2261-08	22613	Orthodontist
2261-09	22614	Dentist, Prosthodontistry
2261-10	22614	Prosthodontist
2261-11	22615	Dentist, Periodontistry
2261-12	22615	Periodontist
2261-13	22616	Dentist, Oral Surgery
2261-14	22616	Oral Dentistry Surgeon
2261-15	New	Stomatologist
2261-16	New	Dental Practitioner
2261-17	New	Dental Surgeon
2261-18	New	Endodontist
2261-19	New	Oral and Maxillofacial Surgeon
2261-20	New	Oral Pathologist
2261-21	32141	Dental Technologist, Grade U29
<b>2262</b>		<b>PHARMACISTS</b>
2262-01	22625	Pharmacy Officer, Grade U41
2262-02	JPA	Assistant Pharmacy Officer, Grade U29
2262-03	22621	Pharmacist
2262-04	22622	Industrial Pharmacist

MASCO 2013	MASCO 2008	JOB TITLE
2262-05	22623	Retail Pharmacist
2262-06	22624	Hospital Pharmacist
2262-07	New	Dispensing Chemist
2262-08	53213	Assistant Pharmacist
<b>2263</b>		<b>ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND HYGIENE PROFESSIONALS</b>
2263-01	32572	Assistant Environmental Health Officer/ Environmental Health Officer, Grade U29
2263-02	New	Labour Affairs Officer - Occupational Safety and Health
2263-03	22631	Sanitarian
2263-04	New	Hazardous Waste Management Technologist
2263-05	New	Labour Standards Officer - Occupational Safety and Health
2263-06	22631	Occupational Safety and Health Officer
2263-07	New	Environmental Health Enforcement Officer
2263-08	New	Environmental Safety and Health Technologist
2263-09	New	Environmental Health Officer
2263-10	New	Environmental Officer
2263-11	New	Safety and Health Officer
2263-12	New	Safety and Health Technologist
2263-13	New	Industrial Health Officer
2263-14	New	Industrial Safety Officer - Occupational Safety and Health
2263-15	New	Occupational Safety and Health Officer
2263-16	New	Occupational Health Officer
2263-17	New	Occupational Hygiene Technologist
2263-18	New	Occupational Safety Officer
2263-19	New	Quarantine Officer - Public Health
2263-20	New	Occupational Safety and Health Adviser
2263-21	New	Occupational Hygienist
2263-22	New	Radiation Protection Expert
<b>2264</b>		<b>PHYSIOTHERAPISTS</b>
2264-01	22113	Medical Rehabilitation Officer, Grade U41
2264-02	22644	Instructor (Physiotherapy), Grade U41
2264-03	JPA	Physiotherapist, Grade U29
2264-04	22641	Physiotherapist
2264-05	22642	Massage Therapist
2264-06	22642	Physical Therapist
2264-07	22642	Mascular Therapist
2264-08	22642	Physiotherapy Masseur
2264-09	22642	Therapeutic Masseur
2264-10	New	Health Therapist
2264-11	New	Geriatric Physical Therapist
2264-12	New	Paediatric Physical Therapist
2264-13	New	Orthopaedic Physical Therapist
<b>2265</b>		<b>DIETICIANS AND NUTRITIONISTS</b>
2265-01	22656	Dietetics Officer, Grade U41
2265-02	22651	Dietician
2265-03	22651	Hospital Dietician
2265-04	22651	Public Health Dietician
2265-05	22651	Therapeutic Dietician
2265-06	22652	Nutritionist
2265-07	22652	Animal Nutritionist
2265-08	22652	Public Health Nutritionist
2265-09	22652	Research Nutritionist
2265-10	22653	Dietetic Consultant
2265-11	22653	Food Processing Consultant
2265-12	New	Clinical Dietician
2265-13	New	Food Serving Dietician

MASCO 2013	MASCO 2008	JOB TITLE
<b>2266</b>		<b>AUDIOLOGISTS AND SPEECH THERAPISTS</b>
2266-01	22661	Audiologist
2266-02	22662	Speech Therapist
2266-03	22663	Orthoepist
2266-04	22663	Orthophonist
2266-05	New	Language Therapist
2266-06	New	Speech Pathologist
<b>2267</b>		<b>OPTOMETRISTS AND OPHTHALMIC OPTICIANS</b>
2267-01	22673	Optometry Officer, Gred U41
2267-02	22671	Optometrist
2267-03	22672	Optician
2267-04	22672	Ophthalmic Optician
2267-05	22672	Orthoptist
<b>2268</b>		<b>OCCUPATIONAL THERAPISTS</b>
2268-01	22681	Occupational Therapist
<b>2269</b>		<b>HEALTH PROFESSIONALS NOT ELSEWHERE CLASSIFIED</b>
2269-01	22691	X-Ray Technician, Grade U41
2269-02	22692	Instructor (X-Ray Technician), Grade U41
2269-03	22693	Instructor (Medical Laboratory Technologist), Grade U41
2269-04	32124	Medical Laboratory Technologist, Grade U29
2269-05	22662	Orientation Therapist for the Blind
<b>2311</b>		<b>UNIVERSITY AND HIGHER EDUCATION TEACHING PROFESSIONAL</b>
2311-01	23105	University Lecturer, Grade DS45
2311-02	23106	Medical Lecturer, Grade DU45
2311-03	23107	UiTM Lecturer, Grade DM41
2311-04	23108	UiTM Assistant Lecturer, Grade DM29
2311-05	23109	Dental Lecturer, Grade DUG45
2311-06	23304	Higher Learning Education Service Officer, Grade DG41
2311-07	23413	Assistant Higher Learning Education Service Officer, Grade DGA29
2311-08	23305	Higher Learning Education Officer, Grade DH41
2311-09	23414	Higher Learning Education Officer, Grade DH29
2311-10	23101	Lecturer
2311-11	23104	Tutor
2311-12	New	Professor
<b>2321</b>		<b>VOCATIONAL EDUCATION TEACHERS</b>
2321-01	23201	Teacher, Technical
2321-02	23201	Teacher, Vocational
<b>2331</b>		<b>SECONDARY EDUCATION TEACHERS</b>
2331-01	23303	Graduate Education Service Officer, Grade DG41
2331-02	23301	Secondary Education Teacher
2331-03	23301	Graduate Teacher Officer
2331-04	23302	Pre-University Teacher
<b>2341</b>		<b>PRIMARY SCHOOL TEACHERS</b>
2341-01	23412	Post-Diploma Education Service Officer, Grade DGA29
2341-02	23411	Primary School Teacher
<b>2342</b>		<b>EARLY CHILDHOOD EDUCATORS</b>
2342-01	23421	Pre-Primary School Teacher
2342-02	23421	Kindergarten Teacher
2342-03	New	Pre-school Teacher
2342-04	New	Early Childhood Educator

MASCO 2013	MASCO 2008	JOB TITLE
<b>2351</b>		<b>MUSIC TEACHERS</b>
2351-01	23511	Music Teacher
2351-02	New	Singing Teacher
<b>2352</b>		<b>ARTS TEACHERS</b>
2352-01	23521	Fine Arts Teacher
2352-02	New	Sculpture Teacher
2352-03	New	Painting Teacher
<b>2353</b>		<b>PERFORMING ARTS TEACHERS</b>
2353-01	23531	Modelling Teacher
2353-02	New	Dance Teacher
2353-03	New	Drama Teacher
<b>2361</b>		<b>LANGUAGE TEACHERS</b>
2361-01	23601	Language Teacher, Grade DG41
2361-02	New	Intensive Language Teacher
2361-03	New	Migrant Education Teacher
2361-04	New	Practical Language Teacher
2361-05	New	Second Language Teacher
<b>2371</b>		<b>RELIGIOUS TEACHERS</b>
2371-01	23701	Islamic Religious Teacher
2371-02	23701	<i>Ustaz / Ustazah</i>
2371-03	23702	Islamic Education Teacher
2371-04	New	Religious Education Teacher
<b>2381</b>		<b>VOCATIONAL TRAINING OFFICERS</b>
2381-01	23801	Vocational Training Assistant/ Assistant Vocational Training Officer/ Vocational Training Officer, Grade J17
2381-02	23805	Skill Training Trainer
<b>2391</b>		<b>EDUCATION METHOD SPECIALISTS</b>
2391-01	23993	Curriculum Developer
2391-02	New	Education Method Specialist
2391-03	23911	School Inspector
2391-04	23991	Educational System Evaluator
2391-05	23915	Teaching Aid Specialist
2391-06	23915	Visual Teaching Aid Specialist
2391-07	23915	Audio-Visual Teaching Specialist
2391-08	23991	Educational System Researcher
2391-09	23992	Educational Method Adviser
2391-10	New	Curriculum Coordinator
<b>2392</b>		<b>SPECIAL NEEDS TEACHERS</b>
2392-01	23921	Teacher, Special Education for the Deaf
2392-02	23922	Teacher, Special Education for the Dumb
2392-03	23923	Teacher, Special Education for the Blind
2392-04	23924	Teacher, Special Education for the Mentally Disabled
2392-05	23925	Teacher, Special Education for the Physically Disabled
2392-06	23602	Professional Remedial Teacher
2392-07	New	Learning Disability Special Education Teacher
2392-08	New	Learning Support Teacher
2392-09	New	Remedial Teacher
<b>2393</b>		<b>INFORMATION TECHNOLOGY TRAINERS</b>
2393-01	23931	Satellite-Instruction Facilitator
2393-02	New	Computer Trainer
2393-03	New	Software Trainer

MASCO 2013	MASCO 2008	JOB TITLE
<b>2399</b>		<b>TEACHING PROFESSIONALS NOT ELSEWHERE CLASSIFIED</b>
2399-01	23804	Training Officer, Grade E41
2399-02	23807	Assistant Training Officer, Grade E27
2399-03	24461	Kesatria Officer, Grade S41
2399-04	33564	Assistant Kesatria Officer, Grade S27
2399-05	23994	Educational Counsellor
2399-06	23995	Vocational Student Counsellor
2399-07	23601	Teacher for the Exceptionally Intelligent
2399-08	23912	Teacher, Home Economics
2399-09	23914	Teacher, Adult Education
2399-10	New	School Counsellor
2399-11	New	Teacher, Tuition
<b>2411</b>		<b>ACCOUNTANTS</b>
2411-01	24112	Accountant, Grade W41
2411-02	24115	Executive Officer (Accounting), Grade 41
2411-03	33134	Assistant Accountant, Grade W27
2411-04	33138	Assistant Executive Officer (Accounting), Grade 31
2411-05	MIDA	Executive Officer (Accounting), Grade 9
2411-06	MIDA	Assistant Executive Officer (Accounting), Grade 6
2411-07	SPAD	Executive Officer (Accounting), Grade L5
2411-08	SPAD	Assistant Executive Officer (Accounting), Grade L8
2411-09	24113	Auditing Accountant
2411-10	24111	Accountant
2411-11	24113	Cost Accountant
2411-12	24114	Tax Accountant
2411-13	24114	Tax Consultant
2411-14	24115	Liquidator
2411-15	24116	Public Accountant
2411-16	24116	Chartered Accountant
2411-17	24116	Group Accountant
2411-18	24116	Management Accountant
2411-19	24116	Municipal Accountant
2411-20	24116	Company Accountant
2411-21	24116	Account Executive
2411-22	24119	Bank Accounting Analyst
2411-23	33122	Cost Controller
2411-24	New	Certified Accountant
2411-25	24132	Financial Controller
2411-26	New	Account Receivable Executive
2411-27	New	Account Payable Executive
2411-28	33135	Assistant Account Executive Officer
2411-29	33131	Assistant Account Officer
2411-30	24117	Auditor, Grade W41
2411-31	24118	Executive Officer (Audit), Grade 41
2411-32	33132	Assistant Auditor, Grade W27
2411-33	33137	Assistant Executive Officer (Audit), Grade 31
2411-34	New	Assistant Executive Officer (Audit), Grade 6
2411-35	24113	Auditor
2411-36	24113	Audit Executive
2411-37	24113	Audit and Risk Assessment Executive
2411-38	33136	Assistant Audit Executive Officer
2411-39	MIDA	Executive Officer (Audit), Grade 9
2411-40	SPAD	Executive Officer (Audit), Grade L5
2411-41	SPAD	Assistant Executive Officer (Audit), Grade L8
2411-42	New	Payroll Analyst
2411-43	New	Payroll Executive
<b>2412</b>		<b>FINANCIAL AND INVESTMENT ADVISERS</b>
2412-01	24123	Finance Officer, Grade W41



MASCO 2013	MASCO 2008	JOB TITLE
2412-02	New	Assistant Finance Officer, Grade W27
2412-03	SPAD	Executive Officer (Finance), Grade L5
2412-04	SPAD	Assistant Executive Officer (Finance), Grade L8
2412-05	24121	Corporate Financial Adviser
2412-06	24121	Financial and Investment Adviser
2412-07	24122	E-Commerce Adviser
2412-08	24124	Finance Executive
2412-09	New	Bank Executive Officer
2412-10	24133	Financial Planner
2412-11	33341	Estate Planner
2412-12	21833	Property Executive
<b>2413</b>		<b>FINANCIAL ANALYSTS</b>
2413-01	24131	Financial Analyst
2413-02	New	Bond Analyst
2413-03	New	Investment Consultant
2413-04	New	Risk Operation Analyst
<b>2421</b>		<b>MANAGEMENT AND ORGANISATION ANALYSTS</b>
2421-01	24214	Evaluation Officer, Grade W41
2421-02	33154	Assistant Valuation Officer, Grade W27
2421-03	24211	Organisation and Method Analyst
2421-04	24211	Research and Information Analyst
2421-05	24211	Operation Research Analyst
2421-06	24211	Management Consultant
2421-07	New	Business Consultant
<b>2422</b>		<b>POLICY ADMINISTRATION PROFESSIONALS</b>
2422-01	24253	Administrative and Diplomatic Officer, Grade M41
2422-02	24223	Policy Analyst
2422-03	24223	Intelligence Officer
2422-04	24224	Policy Officer
2422-05	24225	Policy Executive
<b>2423</b>		<b>PERSONNEL AND CAREER PROFESSIONALS</b>
2423-01	24231	Personnel Safety Officer
2423-02	24231	Personnel Officer
2423-03	24231	Human Resource Executive
2423-04	24232	Job Analyst
2423-05	24232	Occupational Analyst
2423-06	24232	Job Evaluator
2423-07	24233	Employment Counsellor
2423-08	24233	Occupational Guidance Officer
2423-09	24233	Career Adviser
2423-10	24233	Labour Management Relations Conciliator
2423-11	24234	Personnel Consultant
2423-12	New	Human Resource Expert
2423-13	New	Vocational Guidance Counsellor
2423-14	New	Industry Educator
2423-15	New	Training Consultant
2423-16	New	Human Resource Analyst
2423-17	New	Human Resource Coordinator
2423-18	New	Human Resource Consultant
2423-19	New	Talent Management Specialist
2423-20	New	Training Specialist
<b>2424</b>		<b>TRAINING AND STAFF DEVELOPMENT PROFESSIONALS</b>
2424-01	24241	Staff Training Officer
2424-02	24242	Vocational Staff Training Officer
2424-03	New	Workforce Development Specialist

MASCO 2013	MASCO 2008	JOB TITLE
<b>2425</b>		<b>ADMINISTRATIVE PROFESSIONALS</b>
2425-01	24256	Administrative Officer, Grade N41
2425-02	24259	Executive Officer (Administration), Grade 41
2425-03	SPAD	Executive Officer (Administration), Grade L5
2425-04	33413	Assistant Executive Officer (Administration), Grade 31
2425-05	33416	Assistant Administrative Officer, Grade N27
2425-06	New	Assistant Land Administrative Officer, Grade N27
2425-07	New	Land Assistant Officer (Peninsula), NT27
2425-08	33415	Assistant Land Officer (Sarawak), Grade NT27
2425-09	33415	Assistant Land Administrative Officer (Sabah), Grade NT27
2425-10	SPAD	Assistant Executive Officer (Administration), Grade L8
2425-11	33563	Public Service Commission Officer
2425-12	33434	Government Executive Officer
2425-13	New	Government Administrative Executive
2425-14	33435	Statutory Body Executive Officer
2425-15	24251	Administrative Executive
2425-16	24252	College / University Registrar
2425-17	New	Administrative Officer
2425-18	New	Administration Executive Officer
2425-19	24254	Operation Executive
2425-20	New	Assistant Administration Executive Officer
<b>2426</b>		<b>RESEARCH AND DEVELOPMENT PROFESSIONALS</b>
2426-01	21317	Research Officer, Grade Q41
2426-02	21319	Scientific Officer, Grade C41
2426-03	31418	Assistant Research Officer, Grade Q27
2426-04	24495	Patent Inspector, Grade Q41
2426-05	31601	Assistant Scientific Officer, Grade C27
2426-06	New	Agro-Based Biotech Food Researcher
2426-07	New	Aquaculture Biotech Researcher
2426-08	New	Agriculture Biotech Researcher
2426-09	New	Veterinary Biotech Researcher
<b>2431</b>		<b>ADVERTISING AND MARKETING PROFESSIONALS</b>
2431-01	24311	Advertising Account Executive
2431-02	24312	Market Research Business Analyst
2431-03	24313	Sales Promotion Officer
2431-04	24314	Business Efficiency Officer
2431-05	24315	Business Consultant
2431-06	24222	Patent Agent
2431-07	New	Market Research Analyst
2431-08	New	Sales Specialist
2431-09	New	Business Compliance Executive
<b>2432</b>		<b>PUBLIC RELATIONS PROFESSIONALS</b>
2432-01	24325	Information Officer, Grade S41
2432-02	34124	Assistant Information Officer, Grade S27
2432-03	New	Public Relations Officer
2432-04	24321	Corporate Affairs Executive
2432-05	24321	Industrial Relations Executive
2432-06	24321	Public Relations Executive
2432-07	24321	Customer Service Executive
2432-08	24322	Publicity Agent
2432-09	24323	Corporate Communications Executive
2432-10	24323	Press Officer
2432-11	24323	Press Liaison Officer
2432-12	24323	Media Planner
2432-13	24323	Tourism Officer
2432-14	New	Customer Service Officer
2432-15	New	Customer Care Coordinator

MASCO 2013	MASCO 2008	JOB TITLE
2432-16	New	Customer Relations Executive
2432-17	New	Sales Reservation Executive
2432-18	New	Call Centre Officer
2432-19	42266	Front Office Officer
<b>2433</b>		<b>TECHNICAL AND MEDICAL SALES PROFESSIONALS (EXCLUDING ICT)</b>
2433-01	24331	Sales Representative, Medical
2433-02	24332	Sales Representative, Medical Devices
2433-03	24332	Sales Representative, Medical Hardware
2433-04	24333	Sales Representative, Active Implantable Devices
2433-05	24334	Sales Representative, Anaesthetic and Respiratory Devices
2433-06	24335	Sales Representative, Dental Devices
2433-07	24336	Sales Representative, Electromechanical Medical Devices
2433-08	24337	Sales Representative, Ophthalmic and Optical Devices
2433-09	New	Sales Representative, Industrial Product
2433-10	New	Sales Representative, Medical and Pharmaceutical Product
2433-11	New	Technical Sales Representative
<b>2434</b>		<b>INFORMATION AND COMMUNICATIONS TECHNOLOGY (ICT) SALES PROFESSIONALS</b>
2434-01	24341	Sales Representative, Information and Communications Technology
2434-02	24342	Sales Representative, Computer
2434-03	New	Product Support Engineer
2434-04	33227	Information Technology Sales Engineer
2434-05	New	Customer Support Representative
2434-06	New	Product Engineer
2434-07	New	Product Support Officer
2434-08	33227	ICT Sales Application Engineer
2434-09	New	Product Development Engineer
<b>2511</b>		<b>SYSTEMS ANALYSTS</b>
2511-01	25111	Communications Computer Analyst
2511-02	25111	Electronic Data Processing Analyst
2511-03	25111	Management Information System (MIS) Analyst
2511-04	25111	Computer System Analyst
2511-05	25111	Computer Consultant
2511-06	25111	IT System Consultant
2511-07	25111	Information Technology Consultant
2511-08	25112	Information Technology Business Analyst
2511-09	25147	Information Technology Researcher
2511-10	21664	Computer System Designer
2511-11	New	Information Technology System Designer
2511-12	New	Computer Scientist
2511-13	35122	Assistant Computer System Analyst
2511-14	New	RPG System Analyst
2511-15	New	C++ Software Analyst
2511-16	New	Oracle Database Analyst
2511-17	New	Structured Query Language (SQL) Database Analyst
2511-18	New	Information Technology Security Analyst
2511-19	New	.NetProgrammer Analyst
2511-20	New	Enterprise Resource Planning (ERP) Programmer Analyst (ABAP)
2511-21	New	.Net Consultant
2511-22	New	.NetApplication Consultant
2511-23	New	Information Technology Consultant (.Net)
2511-24	New	Information Technology Specialist (.Net)
2511-25	New	Technical Specialist (.Net)
2511-26	New	Java Consultant
2511-27	New	Java Application Consultant
2511-28	New	Java Programmer Analyst
2511-29	New	Information Technology Consultant (Java)
2511-30	New	Information Technology Specialist(Java)

MASCO 2013	MASCO 2008	JOB TITLE
2511-31	New	Technical Specialist (Java)
2511-32	New	Information Technology System Analyst (JDE)
2511-33	New	JD Edwards (JDE) Application Specialist
2511-34	New	Information Technology Specialist (Lotus Notes)
2511-35	New	Application Specialist Support (Navision)
2511-36	New	Technical Writer
2511-37	New	Data Centre Specialist
2511-38	New	Oracle Applications Administrator
2511-39	New	Oracle E-Business Suite Consultant
2511-40	New	Oracle Financials Support Specialist
2511-41	New	Oracle Functional Consultant
2511-42	New	System Engineer (Oracle)
2511-43	New	Oracle Consultant
2511-44	New	Peoplesoft Consultant (IT)
2511-45	New	Peoplesoft Financials Functional Consultant
2511-46	New	Enterprise Systems Specialist (IT)
2511-47	New	Enterprise Resource Planning (ERP) Technical Specialist (IT)
2511-48	New	Information Technology Specialist (SAP)
2511-49	New	Sharepoint Consultant (IT)
2511-50	New	Sharepoint Technical Specialist (IT)
2511-51	New	Sharepoint Specialist (IT)
2511-52	New	Siebel Specialist (IT)
2511-53	New	Information Technology Application Management Analyst (Siebel)
2511-54	New	Information Technology Specialist (Siebel) (IT)
2511-55	New	Siebel Customer Relationship Management (CRM) Consultant (IT)
2511-56	New	Security Analyst (IT)
2511-57	New	Register Transfer Level (RTL) Designer (IT)
2511-58	New	Analogue Integrated Circuit (IC) Designer (IT)
2511-59	New	Design Engineer (IT)
2511-60	New	Integrated Circuit (IC) Designer (IT)
2511-61	New	Logic Designer (IT)
2511-62	New	Mixed Signal Integrated Circuit (IC) Designer (IT)
2511-63	New	Power Integrated Circuit (IC) Designer (IT)
2511-64	New	Radio Frequency (RF) Integrated Circuit (IC) Design Engineer (IT)
<b>2512</b>		<b>SOFTWARE DEVELOPERS</b>
2512-01	25121	Software Developer
2512-02	25121	Multi-Media Software Developer
2512-03	25123	Software Designer
2512-04	New	Design Engineer
2512-05	New	.Net Developer
2512-06	New	Application Developer (.Net)
2512-07	New	Application Engineer (.Net)
2512-08	New	Software Engineer (.Net)
2512-09	New	C/C++ Developer
2512-10	New	C/C++ Software Engineer
2512-11	New	Cobol Developer
2512-12	New	Microfocus Cobol Developer
2512-13	New	Java Application Developer
2512-14	New	Java Developer
2512-15	New	Hypertext Preprocessor (PHP) Developer
2512-16	New	Web Programmer (PHP)
2512-17	New	Information Technology Executive (RPG)
2512-18	New	Lotus Notes Developer (IT)
2512-19	New	System Architect (IT)
2512-20	New	Technical Architect (IT)
2512-21	New	Navision Developer (IT)
2512-22	New	Net Sharepoint Developer (IT)
2512-23	New	Software Engineer (Sharepoint) (IT)
2512-24	New	Siebel Developer (IT)

MASCO 2013	MASCO 2008	JOB TITLE
<b>2513</b>		<b>WEB AND MULTIMEDIA DEVELOPERS</b>
2513-01	25131	Website Developer
2513-02	25131	Internet/ Intranet Developer
2513-03	25132	Website Architect
2513-04	35142	Webmaster
2513-05	35143	Website Administrator
<b>2514</b>		<b>APPLICATION PROGRAMMERS</b>
2514-01	25141	Computer Programmer
2514-02	25141	Software Programmer
2514-03	25141	Technical Programmer
2514-04	25141	Information Technology Programmer
2514-05	25142	Communication Programmer
2514-06	25143	Database Programmer
2514-07	25144	System Programmer
2514-08	25145	Analyst Programmer
2514-09	25145	Application Programmer
2514-10	New	.NetAnalyst Programmer
2514-11	New	Lotus Notes Programmer
2514-12	New	Video Game Programmer
2514-13	New	Network Programmer
2514-14	New	Sound Programmer
2514-15	New	Artificial Intelligence Programmer
2514-16	New	Analogue Integrated Circuit (IC) Design Verification Engineer
2514-17	New	.Net Programmer
2514-18	New	Software Programmer (.Net)
2514-19	New	C/C++ Programmer
2514-20	New	C++ Graphics Programmer
2514-21	New	Cobol Programmer
2514-22	New	Java Programmer
2514-23	New	J2EE Programmer
2514-24	New	J2ME Programmer
2514-25	New	Java EE Programmer
2514-26	New	Hypertext Preprocessor (PHP)
2514-27	New	Animation Programmer
2514-28	New	Computer Game Programmer
2514-29	25146	Multimedia Programmer
2514-30	New	Navision Analyst Programmer
2514-31	New	Java Analyst Programmer
<b>2519</b>		<b>SOFTWARE AND APPLICATION DEVELOPERS AND ANALYSTS NOT ELSEWHERE CLASSIFIED</b>
2519-01	25192	Software Tester
2519-02	25193	Systems Tester
2519-03	New	Product Quality Assurance Engineer (IT)
2519-04	New	QA Analyst (IT)
2519-05	New	QA Executive (IT)
2519-06	New	Quality Engineer (IT)
2519-07	New	Test Engineer (IT)
2519-08	New	Solution Architect (IT)
2519-09	New	Application Assurance Engineer (IT)
2519-10	New	Application Security Engineer (IT)
2519-11	New	Software QA Engineer (IT)
2519-12	New	Siebel Solution Architect
2519-13	New	Siebel Technical Architect
<b>2521</b>		<b>DATABASE DESIGNERS AND ADMINISTRATORS</b>
2521-01	25211	Database Architect
2521-02	25211	Database Analyst
2521-03	25211	Database Administrator
2521-04	25211	Database Designer

MASCO 2013	MASCO 2008	JOB TITLE
2521-05	25212	Computer Auditor
2521-06	25213	Administrator, Electronic Data Processing (PDE)
2521-07	New	Oracle Database Engineer
2521-08	New	Oracle Database Specialist
2521-09	New	Structured Query Language (SQL) Database Administrator
2521-10	New	Structured Query Language (SQL) Database Engineer
2521-11	New	Structured Query Language (SQL) Database Specialist
<b>2522</b>		<b>INFORMATION TECHNOLOGY SYSTEM ADMINISTRATORS</b>
2522-01	25222	Information Technology Officer, Grade F41
2522-02	25224	Executive Officer (Information Technology), Grade 41
2522-03	35123	Assistant Information Technology Officer, Grade F29
2522-04	35116	Assistant Executive Officer (Information Technology), Grade 31
2522-05	MIDA	Executive Officer (Information Technology), Grade 9
2522-06	MIDA	Assistant Executive Officer (Information Technology), Grade 6
2522-07	SPAD	Executive Officer (Information Technology), Grade L5
2522-08	SPAD	Assistant Executive Officer (Information Technology), Grade L8
2522-09	New	Information System Officer
2522-10	25221	Network Communications Executive
2522-11	25221	Information System Officer
2522-12	25221	Information Technology Support Officer
2522-13	25221	System Administrator
2522-14	25221	Computer System Administrator
2522-15	25222	Information Technology Executive
2522-16	New	Project Coordinator (IT)
2522-17	New	Project Administrator (IT)
2522-18	New	Computer Support Engineer
2522-19	New	System Engineer (IT)
2522-20	New	Technical Specialist (IT)
2522-21	New	SAP Application Administrator
2522-22	New	Access Administration Analyst
2522-23	New	Inbound Technical Support Representative
2522-24	35121	Assistant Information Technology Officer
2522-25	25232	NetApps Administrator
<b>2523</b>		<b>COMPUTER NETWORK PROFESSIONALS</b>
2523-01	25231	Network Analyst
2523-02	25233	Network Service Consultant
2523-03	25234	Network Administrator
2523-04	25235	Network Infrastructure Administrator
2523-05	New	Network Engineer
2523-06	New	Network System Engineer
<b>2529</b>		<b>DATABASE AND NETWORK PROFESSIONALS NOT ELSEWHERE CLASSIFIED</b>
2529-01	25291	Information and Communications Technology Security Executive
2529-02	New	Cyber Security Executive
2529-03	New	Digital Forensic Specialist
2529-04	New	Security Specialist (IT)
<b>2611</b>		<b>LAWYERS</b>
2611-01	New	Legal Officer, Grade L41
2611-02	26112	Prosecutor, Grade L41
2611-03	26113	Solicitor, Grade L41
2611-04	26114	Legal Adviser, Grade L41
2611-05	26115	Legal Drafter, Grade L41
2611-06	26116	Legal Aid Bureau Officer, Grade L41
2611-07	26117	Advocate, Grade L41
2611-08	26119	Executive Officer (Legal), Grade 41
2611-09	26122	Shariah Officer, Grade LS41
2611-10	New	Assistant Legal Officer, Grade L29



MASCO 2013	MASCO 2008	JOB TITLE
2611-11	34112	Assistant Shariah Officer, Grade LS27
2611-12	34117	Assistant Executive Officer (Legal), Grade 31
2611-13	MIDA	Executive Officer (Legal), Grade 9
2611-14	MIDA	Assistant Executive Officer (Legal), Grade 6
2611-15	SPAD	Executive Officer (Legal), Grade L5
2611-16	SPAD	Assistant Executive Officer (Legal), Grade L8
2611-17	26111	Federal Counsel, Government Service
2611-18	26111	Legal Adviser
2611-19	26111	Prosecutor
2611-20	26111	Lawyer
2611-21	26111	Legal Executive
2611-22	26111	Lawyer, Shariah
2611-23	26111	Lawyer, Criminal
2611-24	26111	Lawyer, Litigation
2611-25	26111	Lawyer, Conveyancing
2611-26	26111	Lawyer, Civil
2611-27	26111	Advocate
2611-28	26111	Solicitor
2611-29	26111	Barrister
2611-30	New	Assistant, Legal
<b>2612</b>		<b>JUDGES</b>
2612-01	New	Judge
2612-02	26123	Magistrate
2612-03	26121	Judge, Native Court
2612-04	26121	Judge, Federal Court
2612-05	26121	Judge, Sessions Court
2612-06	26121	Judge, High Court
2612-07	New	Judge, Shariah Court
2612-08	26124	Judge, Industrial Court
<b>2619</b>		<b>LEGAL PROFESSIONALS NOT ELSEWHERE CLASSIFIED</b>
2619-01	26191	Notary
2619-02	26191	Commissioner for Oaths
2619-03	26192	Registrar of Court
2619-04	26193	Trust Officer
2619-05	26193	Public Trustee
2619-06	26195	Official Assignee
2619-07	26196	Bankruptcy Officer
2619-08	26197	Coroner
2619-09	26197	Court Receiver and Liquidator
2619-10	26198	Handwriting Expert
2619-11	26198	Parliamentary Drafter
2619-12	26198	Insurance Claim Arbitrator
2619-13	26198	Appeals Referee, Social Security Claims
2619-14	New	Jurist (except lawyer or judge)
<b>2711</b>		<b>HOTEL PROFESSIONALS</b>
2711-01	27114	Guest Service Officer
2711-02	27115	Hotel Operations Executive
2711-03	27112	Guest, Food and Beverage Service Executive
2711-04	New	Hotel Concierge Executive
2711-05	New	Guest Service Executive
2711-06	14113	Front Desk Executive
<b>2712</b>		<b>RESTAURANT PROFESSIONALS</b>
2712-01	27116	Food Preparation Officer, Grade C41
2712-02	New	Food Preparation Executive
2712-03	27117	Kitchen Administrator
2712-04	27113	Food and Beverage Personnel

MASCO 2013	MASCO 2008	JOB TITLE
2712-05	27111	Food and Beverage Executive
2712-06	27111	Food and Beverage Administrator
2712-07	27112	Food and Beverage Captain
2712-08	27112	Food and Beverage Coordinator
<b>2811</b>		<b>ARCHIVISTS AND CURATORS</b>
2811-01	26214	Archive Officer, Grade S41
2811-02	26215	Curator, Grade S41
2811-03	34331	Assistant Archive Officer, Grade S27
2811-04	34332	Assistant Curator, Grade S27
2811-05	26211	Archivist
2811-06	26211	Curator
2811-07	26212	Museum Curator
2811-08	26213	Art Gallery Curator
<b>2812</b>		<b>LIBRARIANS AND RELATED INFORMATION PROFESSIONALS</b>
2812-01	26227	Librarian, Grade S41
2812-02	26224	Executive Officer (Library), Grade 41
2812-03	34333	Assistant Librarian, Grade S27
2812-04	34336	Assistant Executive Officer (Library), Grade 31
2812-05	MIDA	Executive Officer (Library), Grade 9
2812-06	MIDA	Assistant Executive Officer (Library), Grade 6
2812-07	34335	Assistant Library Executive
2812-08	26221	Library Executive
2812-09	26221	Librarian
2812-10	26224	Bibliographer
2812-11	26223	Librarian, Audio-Visual
2812-12	26223	Librarian, Film
2812-13	26225	Documentalist
2812-14	26225	Cataloguer
2812-15	26226	Information Scientist, Technical Information
2812-16	26226	Information Scientist, Business Services
<b>2821</b>		<b>ECONOMISTS</b>
2821-01	26312	Economic Affairs Officer, Grade E41
2821-02	34127	Assistant Economic Affairs Officer, Grade E27
2821-03	MIDA	Executive Officer (Economics), Grade 9
2821-04	MIDA	Assistant Executive Officer (Economics), Grade 6
2821-05	26311	Econometrician
2821-06	26311	Economist
2821-07	26311	Economist, Econometrics
2821-08	New	Economics Adviser
2821-09	New	Economics Analyst
2821-10	New	Labour Economist
2821-11	26355	Home Economist
<b>2822</b>		<b>SOCIOLOGISTS, ANTHROPOLOGISTS AND RELATED PROFESSIONALS</b>
2822-01	26327	Social Research Officer, Grade N41
2822-02	34125	Assistant Social Research Officer, Grade N27
2822-03	26321	Sociologist
2822-04	26322	Anthropologist
2822-05	26323	Archaeologist
2822-06	26324	Geographer
2822-07	26325	Penologist
2822-08	26325	Criminologist
2822-09	26326	Ethnologist
<b>2823</b>		<b>PHILOSOPHERS, HISTORIANS AND POLITICAL SCIENTISTS</b>
2823-01	26331	Philosopher
2823-02	26331	Political Philosopher

MASCO 2013	MASCO 2008	JOB TITLE
2823-03	26332	Historian
2823-04	26333	Political Scientist
2823-05	New	Genealogist
<b>2824</b>		<b>PSYCHOLOGISTS</b>
2824-01	26342	Psychology Officer, Grade S41
2824-02	26343	Executive Officer (Psychology), Grade 41
2824-03	34123	Assistant Psychology Officer, Grade S27
2824-04	34129	Assistant Executive Officer (Psychology), Grade 31
2824-05	26341	Psychologist
2824-06	New	Clinical Psychologist
2824-07	New	Educational Psychologist
2824-08	New	Organisational Psychologist
2824-09	New	Psychotherapist
2824-10	New	Sports Psychologist
<b>2825</b>		<b>SOCIAL WORK AND COUNSELLING PROFESSIONALS</b>
2825-01	26353	Community Development Officer, Grade S41
2825-02	34122	Assistant Community Development Officer, Grade S27
2825-03	26351	Social Worker, Professional
2825-04	26352	Counsellor
2825-05	26354	Marriage Counsellor
2825-06	New	Addiction Counsellor
2825-07	New	Bereavement Counsellor
2825-08	New	Child and Youth Counsellor
2825-09	New	Family Counsellor
2825-10	New	Parole Officer
2825-11	New	Probation Officer
2825-12	New	Women's Welfare Organiser
<b>2826</b>		<b>RELIGIOUS PROFESSIONALS</b>
2826-01	26126	Islamic Affairs Officer, Grade S41
2826-02	34113	Assistant Islamic Affairs Officer, Grade S27
2826-03	26361	Religious Officer
2826-04	26362	<i>Mufti</i>
2826-05	26363	<i>Imam</i>
2826-06	26364	<i>Kadhi</i>
2826-07	26365	Priest, Church
2826-08	26366	Priest, Temple
2826-09	New	Religious Professionals
<b>2831</b>		<b>AUTHORS AND RELATED WRITERS</b>
2831-01	26411	Author
2831-02	26411	Biographer
2831-03	26411	Novelist
2831-04	26412	Playwright
2831-05	26412	Essayist
2831-06	26412	Humorist
2831-07	26412	Versifier
2831-08	26412	Critic
2831-09	26412	Writer, Comedy
2831-10	26412	Poet
2831-11	26413	Copywriter, Advertising
2831-12	26414	Lyricist
2831-13	26414	Fiction Writer
2831-14	26414	Song Writer
2831-15	26414	Publicity Writer
2831-16	26414	Script Writer
2831-17	26414	Technical Writer
2831-18	26415	Editor

MASCO 2013	MASCO 2008	JOB TITLE
2831-19	26415	Book Editor
2831-20	26416	Proofreader
2831-21	New	Interactive Media Writer
2831-22	New	Speech Writer
<b>2832</b>		<b>JOURNALISTS</b>
2832-01	26423	Journalist, Grade S41
2832-02	26544	Publications Officer, Grade N41
2832-03	41207	Reporter/Journalist Assistant, Grade S17
2832-04	34334	Assistant Publications Officer, Grade N27
2832-05	26421	News Reporter
2832-06	26421	Columnist
2832-07	26421	Journalist
2832-08	26422	Political Editor
2832-09	26422	Radio and Television News Broadcasting Editor
2832-10	New	Copy Editor
2832-11	New	Newspaper Editor
2832-12	New	Newspaper Reporter
2832-13	New	Sports Writer
2832-14	New	Sub Editor
2832-15	New	Television / Radio News Reporter
2832-16	26542	Press Editor
2832-17	New	Court Reporter
<b>2833</b>		<b>TRANSLATORS, INTERPRETERS AND OTHER LINGUISTS</b>
2833-01	26435	Interpreter, Grade L17
2833-02	26436	Simultaneous Interpreter, Grade N41
2833-03	26431	Translator
2833-04	26432	Interpreter
2833-05	26433	Philologist
2833-06	26433	Lexicographer
2833-07	New	Sign Language Interpreter
2833-08	New	Subtitled
2833-09	New	Translator-Reviser
<b>2841</b>		<b>VISUAL ARTISTS</b>
2841-01	26511	Sculptor
2841-02	26512	Cartoonist
2841-03	26514	Painting Restorer
2841-04	26514	Fine Art Engraver-Etcher
2841-05	26515	Artist
2841-06	26515	Landscape Artist
2841-07	26515	Paint Artist
2841-08	New	Ceramic Artist
2841-09	New	Commercial Artist
2841-10	New	Picture Restorer
2841-11	New	Portrait Painter
<b>2842</b>		<b>MUSICIANS, SINGERS AND COMPOSERS</b>
2842-01	26525	Musician, Grade B41
2842-02	26521	Musicologist
2842-03	26521	Instrumentalist
2842-04	26522	Adiguru - Ancient Malay Dance-Theatre
2842-05	26522	Adiguru - Shadow Puppet Theatre
2842-06	26522	Musician
2842-07	26522	Orchestrator
2842-08	26522	Band Leader
2842-09	26522	Music Director
2842-10	26522	Music Composer
2842-11	26522	Music Arranger

MASCO 2013	MASCO 2008	JOB TITLE
2842-12	26523	Vocal Group Conductor
2842-13	26523	Orchestra Conductor
2842-14	26523	Band Conductor
2842-15	26524	Singer
2842-16	New	Music Conductor
<b>2843</b>		<b>DANCERS AND CHOREOGRAPHERS</b>
2843-01	34353	Cultural Artist, Grade B32
2843-02	26531	Dancer
2843-03	26531	Dancer, Night Club
2843-04	26532	Choreographer
2843-05	26533	Dance Director
2843-06	26534	Dance Arranger
2843-07	26534	Dance Instructor
<b>2844</b>		<b>FILM, STAGE AND RELATED DIRECTORS AND PRODUCERS</b>
2844-01	24326	Cultural Officer, Grade B41
2844-02	26546	Producer, Grade B41
2844-03	New	Animation Producer
2844-04	New	Multimedia Producer
2844-05	26541	Motion Picture Director
2844-06	26541	Motion Picture Photography Director
2844-07	26541	Stage Director
2844-08	26541	Radio and Television Broadcasting Director
2844-09	26541	Radio and Television Director
2844-10	26541	Theatre Director
2844-11	26541	Director, Motion Picture
2844-12	26542	Film and Video Editor
2844-13	26543	Stage Producer
2844-14	26543	Theatre Producer
2844-15	26543	Producer, Television
2844-16	New	Documentary Director
2844-17	New	Director of Photography
2844-18	New	Television or Radio Technical Director
<b>2845</b>		<b>ACTORS</b>
2845-01	26551	Actor
2845-02	26551	Impersonator
2845-03	26552	Story Teller
2845-04	26552	Story Teller, Radio / Television
2845-05	New	Mime Artist
<b>2846</b>		<b>ANNOUNCERS ON RADIO, TELEVISION AND OTHER MEDIA</b>
2846-01	26561	Disk Jockey (DJ)
2846-02	26561	Radio Announcer
2846-03	26561	Television Announcer
2846-04	26561	Master Of Ceremonies
2846-05	26561	Compere
2846-06	26562	Newscaster
2846-07	26562	Commentator
2846-08	26562	Interviewer, Media
2846-09	26563	Presentation Support Assistant
2846-10	26563	Programme Preparer
2846-11	New	News Anchor
2846-12	New	Sports Announcer
<b>2847</b>		<b>CLOWNS, MAGICIANS, ACROBATS AND RELATED PROFESSIONALS</b>
2847-01	26571	Acrobat
2847-02	26572	Contortionist
2847-03	26573	Magician

MASCO 2013	MASCO 2008	JOB TITLE
2847-04	26574	Clown
2847-05	26574	Mimic
2847-06	26574	Ventriloquist
2847-07	26575	Aerialist Trapeze Performer
2847-08	26575	Snake Charmer
2847-09	26575	Circus Performer, Animal
2847-10	26575	Juggler
2847-11	New	Puppeteer
2847-12	New	Stand-up Comedian
<b>2848</b>		<b>ANIMAL KEEPERS AND TRAINERS</b>
2848-01	26581	Trainer in Zoo, Bird and Aquatic Parks
2848-02	26582	Trainer in Crocodile Farm
2848-03	26583	Dog Trainer
2848-04	26584	Horse Trainer
<b>2849</b>		<b>CREATIVE AND PERFORMING ARTISTS NOT ELSEWHERE CLASSIFIED</b>
2849-01	26591	Photographer, Grade B37
<b>2911</b>		<b>PROFESSIONAL CUSTOMS AND BORDER INSPECTOR</b>
2911-01	24411	Superintendent of Customs, Grade W41
2911-02	24412	Assistant Superintendent of Immigration / Superintendent of Immigration, Grade KP27
2911-03	33513	Assistant Superintendent of Customs, Grade W27
<b>2912</b>		<b>PROFESSIONAL TAXATION AND EXCISE OFFICIALS</b>
2912-01	24217	Executive Officer (Appraisal), Grade 41
2912-02	33156	Assistant Executive Officer (Appraisal), Grade 31
2912-03	24218	Appraisal Executive Officer
2912-04	24219	Valuation Officer
2912-05	New	Excise Officer
2912-06	New	Tax Officer
<b>2913</b>		<b>PROFESSIONAL GOVERNMENT SOCIAL BENEFIT OFFICIALS</b>
2913-01	33531	Social Benefits Officer
2913-02	33532	Social Security Claims Officer
2913-03	New	Pensions Officer
2913-04	New	SOCSO Officer
<b>2914</b>		<b>PROFESSIONAL GOVERNMENT LICENSING OFFICIALS</b>
2914-01	24494	Enforcement Officer, Grade N41
2914-02	33594	Assistant Enforcement Officer, Grade N27
2914-03	SPAD	Executive Officer (Enforcement), Grade L5
2914-04	SPAD	Assistant Executive Officer (Enforcement), Grade L8
2914-05	33541	Licensing Officer
2914-06	33541	Passport Issuing Officer
2914-07	New	Building Permit (Licensing) Officer
2914-08	New	Business Permit (Licensing) Officer
<b>2915</b>		<b>PROFESSIONAL POLICE INSPECTORS AND DETECTIVES</b>
2915-01	24452	Senior Police Officer (Inspector), Grade YA13
<b>2916</b>		<b>PROFESSIONAL CIVIL DEFENCE OFFICIALS</b>
2916-01	24463	Civil Defence Officer, Grade KP41
2916-02	33567	Assistant Civil Defence Officer, Grade KP27
2916-03	24462	Civil Defence Officer
<b>2919</b>		<b>REGULATORY GOVERNMENT PROFESSIONALS NOT ELSEWHERE CLASSIFIED</b>
2919-01	24492	Security Officer, Grade KP41
2919-02	24498	Executive Officer (Security), Grade 41
2919-03	24491	Fire Superintendent, Grade KB41



MASCO 2013	MASCO 2008	JOB TITLE
2919-04	24493	Superintendent of Prison, Grade KX41
2919-05	24497	Assistant Registration Officer/Registration Officer, Grade KP27
2919-06	JPA	Assistant Investigation Officer/Investigation Officer, Grade P29
2919-07	26194	Anti-Drug Officer, Grade S41
2919-08	24324	Industrial Relations Officer, Grade S41
2919-09	33599	Malaysian Anti-Corruption Commission Investigating Officer, Grade P41
2919-10	24496	Maritime Enforcement Officer, Grade X13
2919-11	33598	Assistant Security Officer, Grade KP27
2919-12	33593	Assistant Prison Superintendent, Grade KX27
2919-13	33597	Assistant Fire Superintendent, Grade KB29
2919-14	34114	Assistant Anti-Drug Officer, Grade S27
2919-15	34126	Assistant Industrial Relations Officer, Grade S27
2919-16	33596	Assistant Executive Officer (Security), Grade 31
2919-17	26434	Language Planning Officer, Grade S41
2919-18	26437	Assistant Language Planning Officer, Grade S27

**3****TECHNICIANS AND ASSOCIATE PROFESSIONALS****3111****CHEMICAL AND PHYSICAL SCIENCE TECHNICIANS**

3111-01	31114	Laboratory Assistant, Grade C17
3111-02	31177	Geological Assistant, Grade C17
3111-03	31115	Meteorological Assistant, Grade C17
3111-04	31419	Research Assistant, Grade Q17
3111-05	35216	Film Laboratory Assistant, Grade C17
3111-06	31111	Physics Technician
3111-07	31111	Geophysics Technician
3111-08	31111	Chemistry Technician
3111-09	31111	Physical Science Laboratory Technician
3111-10	31111	Physical Science Technician
3111-11	31111	Physics Laboratory Assistant
3111-12	31111	Chemistry Laboratory Assistant
3111-13	31111	Physical Science Laboratory Assistant
3111-14	31114	Soil Technician
3111-15	31114	Soil Laboratory Assistant
3111-16	31115	Meteorological Technician
3111-17	31115	Meteorological Assistant
3111-18	31116	Geological Technician
3111-19	31116	Geological Laboratory Assistant
3111-20	31117	Field Laboratory Research Conductor
3111-21	31119	Astronomy Technician
3111-22	31119	Oceanography Technician
3111-23	New	Laboratory Assistant
3111-24	New	Aerological Technician
3111-25	New	Avalanche Controller
3111-26	New	Climate Data Processor
3111-27	New	Climate Service Technician
3111-28	New	Meteorological Inspector
3111-29	New	Officer-in-charge, Weather station
3111-30	New	Operations Technician, Weather Station
3111-31	New	Surface Weather Observer

**3112****CIVIL ENGINEERING TECHNICIANS**

3112-01	New	Technician, Grade J17
3112-02	31124	Technician (Civil), Grade J17
3112-03	31125	Technician (Architectural), Grade J17
3112-04	31121	Industrial Instrument Technician
3112-05	31121	Civil Engineering Technician
3112-06	31121	Civil Engineering Assistant
3112-07	31121	Civil Engineering Estimator
3112-08	31121	Clerk-of-Work

MASCO 2013	MASCO 2008	JOB TITLE
3112-09	New	Technician
3112-10	31191	Surveying Technical Assistant
3112-11	31191	Surveying Assistant
3112-12	31191	Engineering Designer
3112-13	31191	Civil Engineering Supervisor
3112-14	31191	Tunnel Boring Machine Technician
3112-15	33591	Building Inspector
3112-16	New	Geotechnical Technician
3112-17	New	Fire Inspector
3112-18	New	Surveying Technician
<b>3113</b>		<b>ELECTRICAL ENGINEERING TECHNICIANS</b>
3113-01	31136	Technician (Electrical ), J17
3113-02	31131	Electrical Engineering Technician
3113-03	31131	Wire Cutting Technician
3113-04	31132	High Voltage Electrical Engineering Technician
3113-05	31131	Electrical Engineering Assistant
3113-06	31131	Electrical Technical Assistant
3113-07	31131	Electrical Supervisor
3113-08	31131	Electrical and Instrument Supervisor
3113-09	31132	Electrical High Voltage System Engineering Assistant
3113-10	31133	Electrical Electric Power Transmission Engineering Technician
3113-11	31134	Electrical Engineering Estimator
3113-12	31137	Auto Electrical Technician
<b>3114</b>		<b>ELECTRONICS ENGINEERING TECHNICIANS</b>
3114-01	31144	Technician (Electronics), J17
3114-02	31141	Electronics Engineering Technician
3114-03	31191	CAD/CAM Technician
3114-04	31142	Electronics Engineering Estimator
3114-05	31141	Electronics Engineering Assistant
<b>3115</b>		<b>MECHANICAL ENGINEERING TECHNICIANS</b>
3115-01	31153	Technician (Mechanical), Grade J17
3115-02	New	Technician (Automotive), Grade J17
3115-03	31151	Aerospace (Mechanical) Engineering Technician
3115-04	31151	Aeronautical Engineering Technician
3115-05	31151	Automobile Engineering Technician
3115-06	31151	Mechanical Engineering Technician
3115-07	31151	Mechanical Engineering Technician, Industrial Machinery and Tools
3115-08	31151	Mechanical Engineering Technician, Motors and Engines
3115-09	31151	Mechanical Engineering Technician, Lubrication
3115-10	31151	Mechanical Engineering Technician, Instruments
3115-11	31151	Mechanical Engineering Technician, Agriculture
3115-12	31151	Refrigeration and Air-Conditioning System Engineering Technician
3115-13	31151	Rotary Technician
3115-14	31151	Aeronautical (Mechanical) and Equipment Engineering Assistant
3115-15	31151	Automobile Engineering Assistant
3115-16	31151	Mechanical Engineering Assistant
3115-17	31151	Mechanical Engineering Estimator
3115-18	31154	Dockmaster, Dry Dock
3115-19	31154	Dockmaster, Graving Dock
3115-20	31155	Marine Engineering Technician
3115-21	31155	Marine Engineering Assistant
3115-22	31156	Mechanical Engineering Technician, Ship Construction
3115-23	31158	Hydraulic Hose Technician
3115-24	31158	Test Technician (Mechanical)
3115-25	31191	Robotic Automation Technician
3115-26	31191	Mechatronics Technician
3115-27	New	Machinery Technician

MASCO 2013	MASCO 2008	JOB TITLE
3115-29	New	Aeronautics Engineering Technician
<b>3116</b>		<b>CHEMICAL ENGINEERING TECHNICIANS</b>
3116-01	31161	Chemical Engineering Technician
3116-02	31161	Chemical Process Engineering Technician
3116-03	31162	Petroleum Engineering Technician
3116-04	31162	Oil Technologist
3116-05	31162	Chemical Engineering Technician (Petroleum)
3116-06	31162	Petroleum Refining Technician
3116-07	31162	Petroleum Refining Laboratory Assistant
3116-08	31163	Petroleum and Natural Gas Analyst
3116-09	31164	Chemical Engineering Estimator
3116-10	31161	Chemical Engineering Assistant
<b>3117</b>		<b>MINING AND METALLURGICAL TECHNICIANS</b>
3117-01	31176	Mines Assistant, Grade C17
3117-02	31171	Metallurgical Technician
3117-03	31171	Extractive Metallurgical Technician
3117-04	31174	Petroleum and Natural Gas Extraction Technician
3117-05	31171	Metallurgical Laboratory Assistant
3117-06	31172	Metallurgy Assay Technician
3117-07	31172	Physical Metallurgy Technician
3117-08	31172	Foundry Metallurgy Technician
3117-09	31172	Radioactive Mineral Metallurgy Technician
3117-10	31172	Physical Metallurgy Assistant
3117-11	31173	Mining Engineering Technician
3117-12	31173	Mining Assistant
3117-13	31174	Oil and Gas Well Explosive Technician
3117-14	31174	Petroleum and Natural Gas Extraction Assistant
3117-15	31174	Oil and Gas Well Acidiser
3117-16	31174	Well Acidising Treater
3117-17	New	Fuel Pump Technician
3117-18	31212	Coal Mine Technician
3117-19	31177	Block Boring Technician
3117-20	New	Mines Inspector
3117-21	31171	Extractive Metallurgical Assistant
<b>3118</b>		<b>DRAUGHTSPERSONS</b>
3118-01	31182	Draughtsperson, Grade J17
3118-02	31183	Landscape Technician, Grade J17
3118-03	31186	Town and Country Planning Technician, Grade J17
3118-04	31181	Draughting Technician
3118-05	31181	Draughtsperson
3118-06	31181	Draughtsperson, Die
3118-07	31181	Draughtsperson, Geological
3118-08	31181	Draughtsperson, Illustration Technique
3118-09	31181	Draughtsperson, Jig & Tool
3118-10	31181	Draughtsperson, Cartographical
3118-11	31181	Draughtsperson, Aeronautical Engineering
3118-12	31181	Draughtsperson, Civil Engineering
3118-13	31181	Draughtsperson, Electrical Engineering
3118-14	31181	Draughtsperson, Electronics Engineering
3118-15	31181	Draughtsperson, Marine Engineering
3118-16	31181	Draughtsperson, Mechanical Engineering
3118-17	31181	Draughtsperson, Heating and Ventilation System Engineering
3118-18	31181	Draughtsperson, Lithographic
3118-19	31181	Draughtsperson, Mining
3118-20	31181	Draughtsperson, Architectural
3118-21	31181	Draughtsperson, Structural
3118-22	31181	Draughtsperson, Technical

MASCO 2013	MASCO 2008	JOB TITLE
3118-23	31181	Draughtsperson, Topographical
3118-24	31181	Tracer
3118-25	31189	Engineering Illustrator
<b>3119</b>		<b>PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS NOT ELSEWHERE CLASSIFIED</b>
3119-01	31198	Surveying Technician, Grade J17
3119-02	31197	Quantity Surveying Technician, Grade J17
3119-03	New	Irrigation Inspector, Grade J17
3119-04	34115	Water Supply Superintendent, Grade J17
3119-05	32577	Motor Vehicle Examiner, Grade A17
3119-06	32577	Factory and Machinery Inspector Assistant, Grade J17
3119-07	31191	Quantity Surveying Technician
3119-08	31191	Method Engineering Technician
3119-09	31191	Engineering Technician, Work Study
3119-10	31191	Engineering Technician, Time and Motion Study
3119-11	31191	Engineering Technician, Industrial
3119-12	31191	Engineering Technician, Safety
3119-13	31191	Engineering Technician, Value
3119-14	31191	Engineering Technician, Production
3119-15	31191	Engineering Technician, Planning
3119-16	31191	Engineering Technician, Systems
3119-17	31191	Engineering Technician, Industrial Layout
3119-18	31191	Engineering Assistant, Production
3119-19	31192	Process Technician
3119-20	New	Robotics Technician
3119-21	New	Forensic Science Technician
3119-22	New	Engineering Technician (Production)
3119-23	New	Fire Investigator
3119-24	31223	Maintenance Technician
3119-25	31224	Warehouse Technician
3119-26	31224	Material Store Technician
3119-27	31228	Quality Control Technician
3119-28	31222	Cutting Technician
3119-29	31225	Log Yard Technician
<b>3121</b>		<b>MINING SUPERVISORS</b>
3121-01	31211	Mine Supervisor
3121-02	New	Quarry Supervisor
<b>3122</b>		<b>MANUFACTURING SUPERVISORS</b>
3122-01	31224	Manufacturing Supervisor
3122-02	31224	Production Supervisor
3122-03	31222	Finishing Supervisor
3122-04	31222	Packaging Supervisor
3122-05	31221	Compounding Supervisor
3122-06	31222	Finished Goods Supervisor
3122-07	31222	Cutting Supervisor
3122-08	31225	Sawmill Supervisor
3122-09	31225	Plywood Inspection Supervisor
3122-10	31225	Sawyer Supervisor
3122-11	31226	Chief Hookman Supervisor
3122-12	31228	Log Yard Supervisor
3122-13	New	Area Coordinator, Manufacturing
3122-14	New	Quality Control Inspector
3122-15	31228	Quality Control Supervisor
3122-16	New	Quality Controller
3122-17	82191	Quality Checker Tester

MASCO 2013	MASCO 2008	JOB TITLE
<b>3123</b>		<b>CONSTRUCTION SUPERVISORS</b>
3123-01	31231	Operation Supervisor
3123-02	31231	Project Supervisor
3123-03	31232	Construction Supervisor
3123-04	31232	Site Supervisor
<b>3129</b>		<b>OTHER SUPERVISORS NOT ELSEWHERE CLASSIFIED</b>
3129-01	41108	Land Scheme Supervisor, Grade G17
3129-02	31291	Environmental Supervisor
3129-03	31292	Facilities Supervisor
3129-04	31293	Supervisor
3129-05	31294	Logistic Supervisor
3129-06	31224	Store Supervisor
3129-07	31224	Shift Supervisor
3129-08	31223	Maintenance Supervisor
<b>3131</b>		<b>POWER PRODUCTION PLANT OPERATORS</b>
3131-01	31311	Electric Power Load Dispatcher
3131-02	31312	Electrical Switchboard Operator
3131-03	31313	Hydroelectric Station Operator
3131-04	31314	Power Generating Plant Operator
3131-05	31315	Turbine Operator
3131-06	31316	Powerhouse Fabricator
3131-07	New	Electric Power Plant Operator
3131-08	New	Hydroelectric Power Plant Operator
3131-09	New	Nuclear Power Plant Operator
3131-10	New	Solar Power Plant Operator
3131-11	New	Distribution Control Operator
3131-12	New	Generating Station Operator
3131-13	New	Power System Operator
<b>3132</b>		<b>INCINERATOR AND WATER TREATMENT PLANT OPERATORS</b>
3132-01	31321	Stationary Engine Operator
3132-02	31322	Compressor Operator
3132-03	31322	Gas Compressor Operator
3132-04	31323	Incinerator Plant Operator
3132-05	31324	Pumping Station Operator
3132-06	31325	Heating and Ventilation Equipment Operator
3132-07	31326	Refrigeration System Operator
3132-08	31328	Sewage Plant Operator
3132-09	31328	Water Treatment Plant Operator
3132-10	31329	Machine Operator, Ice Production
3132-11	31329	Hopper Operator
3132-12	New	Incinerator Operator
3132-13	New	Liquid Waste Process Operator
3132-14	New	Waste Water Operator
<b>3133</b>		<b>CHEMICAL PROCESSING PLANT CONTROLLERS</b>
3133-01	New	Chemical Process Technician
3133-02	31331	Chemical Plant Supervisor
3133-03	New	Chemical-Heat-Treating Plant Operator
3133-04	New	Chemical-Filtering and Separating Equipment Operator
3133-05	New	Chemical-Still and Reactor Operator
<b>3134</b>		<b>PETROLEUM AND NATURAL GAS REFINING PLANT OPERATORS</b>
3134-01	31341	Pumpman (Petroleum Refining)
3134-02	31342	Stillman (Petroleum Refining)
3134-03	31343	Controlman (Petroleum Refining)
3134-04	31344	Desulphuriser Operator, Petroleum Refining
3134-05	31344	Acetylene Plant Operator

MASCO 2013	MASCO 2008	JOB TITLE
3134-06	31344	Gas Plant Operator
3134-07	31344	Chlorine Plant Operator
3134-08	31344	Oxygen Plant Operator
3134-09	31345	Paraffin Plant Operator
3134-10	31346	Petroleum Refining Blender
3134-11	31347	Petroleum and Natural Gas Refining Treater Operator
3134-12	31348	Petroleum and Natural Gas Pumping Station Operator
3134-13	31349	Gas Liquefaction Plant Operator
3134-14	31349	Cylinder Filler and Tester (Compressed and Liquefied Gases)
3134-15	New	Operator, Blender/Petroleum and Natural Gas Refining (ethyl)
3134-16	New	Operator, Still/Petroleum and Natural Gas Refining
3134-17	New	Refinery Process Technician
3134-18	New	Petroleum Process Operator
3134-19	31227	Boiler Operator Supervisor
<b>3135</b>		<b>METAL PRODUCTION PROCESS CONTROLLERS</b>
3135-01	31351	Rolling Mill Metal Manipulator
3135-02	31351	Guide Setter, Metal
3135-03	New	Metal Processing Control Operator
3135-04	New	Blast Furnace Operator
3135-05	New	Central Control Caster
3135-06	New	Rolling Mill Control Operator
<b>3139</b>		<b>PROCESS CONTROL TECHNICIANS NOT ELSEWHERE CLASSIFIED</b>
3139-01	31391	Food Processing Technician
3139-02	31341	Pumpman
3139-03	31342	Stillman
3139-04	31343	Controlman
3139-05	31344	Crankshaft Grinding Technician
3139-06	New	Automated Assembly Line Operator
3139-07	New	Industrial Robot Controller
3139-08	New	Paper Pulp Refinery Operator
3139-09	New	Agro-Based Food Biotech Research Technician
3139-10	New	Aquaculture Biotech Research Technician
<b>3141</b>		<b>LIFE SCIENCE TECHNICIANS (EXCLUDING MEDICAL)</b>
3141-01	31411	Biological Technician
3141-02	31412	Entomological Technician
3141-03	32122	Tissue Culture Technician
3141-04	31413	Botanical Technician
3141-05	31413	Botanical Assistant
3141-06	31413	Botanical Research Laboratory Assistant
3141-07	31414	Artificial Breeding Technician
3141-08	31414	Artificial Breeding Research Laboratory Assistant
3141-09	31415	Zoological Technician
3141-10	31415	Zoological Research Laboratory Assistant
3141-11	31416	Taxidermist
3141-12	31416	Research Assistant
3141-13	32121	Bacteriology Technician
3141-14	32121	Biochemistry Technician
3141-15	New	Herbarium Technician
3141-16	32121	Pharmacology Technician
3141-17	32122	Serology Technician
3141-18	31412	Entomological Assistant
<b>3142</b>		<b>AGRICULTURAL AND POULTRY TECHNICIANS</b>
3142-01	31427	Agricultural Assistant, Grade G17
3142-02	54198	Wildlife Assistant, Grade G17
3142-03	54193	Park/Estate Assistant, Grade G17
3142-04	31421	Agronomy Technician



MASCO 2013	MASCO 2008	JOB TITLE
3142-05	31422	Crop Research Technician
3142-06	31423	Soil Science Technician
3142-07	31424	Floriculture Technician
3142-08	31424	Horticulture Technician
3142-09	31424	Olericulture Technician
3142-10	31424	Pomology Technician
3142-11	31424	Plant Nursery Technician
3142-12	61113	Irrigator
3142-13	New	Dairy Technician
3142-14	New	Field Crop Technical Officer
3142-15	New	Herd Tester
3142-16	New	Horticultural Technical Officer
3142-17	New	Poultry Technical Officer
<b>3143</b>		<b>FORESTRY TECHNICIANS</b>
3143-01	62114	Forest Ranger, Grade G17
3143-02	62116	Logging Instructor, Grade G17
3143-03	31431	Arboriculture Technician
3143-04	31431	Forestry Technician
3143-05	31431	Silviculture Technician
<b>3144</b>		<b>FISHERY TECHNICIANS</b>
3144-01	61236	Fisheries Assistant, Grade G17
3144-02	31442	Hatchery Technician
3144-03	31442	Hatchery Supervisor
3144-04	31443	Fishery Technician
3144-05	31442	Hatchery Assistant
<b>3151</b>		<b>AIRCRAFT TECHNICIANS</b>
3151-01	43238	Air Traffic Control Assistant, Grade A17
3151-02	31511	Air Traffic Safety Technician
3151-03	New	Aircraft Technician
3151-04	New	Aviation Maintenance Technician
3151-05	New	Aircraft Service Technician
3151-06	New	Aircraft Maintenance Technician (Airframes)
3151-07	New	Aircraft Maintenance Technician (Engines)
3151-08	New	Aircraft Restorer
3151-09	New	Airframe and Power Plant Technician
3151-10	New	Airframe Technician
3151-11	New	Helicopter Technician
3151-12	New	Jet Engine Technician
3151-13	New	Pneumatic System Technician (Aircraft)
3151-14	New	Power Plant Technician (Aircraft)
3151-15	New	Rocket Engine Component Technician
<b>3152</b>		<b>SHIP / MARINE TECHNICIANS</b>
3152-01	New	Marine Assistant, Grade A17
3152-02	31521	Berthing Master
3152-03	31522	Yacht Skipper
3152-04	31523	Cargo Ship Traffic Supervisor
3152-05	31525	Marine Engine Technician
3152-06	New	Ship Technician
<b>3153</b>		<b>TRAIN/ LOCOMOTIVE TECHNICIANS</b>
3153-01	New	Train Technician
3153-02	31532	Railway Supervisor
3153-03	31532	Locomotive Supervisor
3153-04	31532	Light Rail Transit Supervisor
3153-05	31533	Railway Inspector

MASCO 2013	MASCO 2008	JOB TITLE
<b>3154</b>		<b>MOTOR VEHICLE TECHNICIANS</b>
3154-01	New	Motor Vehicle Technician
3154-02	New	Motor Vehicle Engine and Fuel System Technician
3154-03	New	Motor Vehicle Mechatronics Technician
3154-04	New	Automotive Brake System Technician
3154-05	New	Vehicle Body Frame Technician
<b>3159</b>		<b>TRANSPORT TECHNICIANS NOT ELSEWHERE CLASSIFIED</b>
3159-01	31591	Road Transport Supervisor
<b>3161</b>		<b>NUCLEAR RESEARCH AND DEVELOPMENT ASSOCIATE PROFESSIONALS</b>
3161-01	New	Nuclear Technician
<b>3211</b>		<b>MEDICAL IMAGING AND THERAPEUTIC EQUIPMENT TECHNICIANS</b>
3211-01	32111	X-ray Technician, Grade U29
3211-02	32112	X-ray Technician
3211-03	New	Radiology Technician
3211-04	New	Diagnostic Medical Radiographer
3211-05	New	Mammographer
3211-06	New	Medical Radiation Therapist
3211-07	New	Nuclear Medicine Technologist
3211-08	New	Sonographer
<b>3212</b>		<b>MEDICAL AND PATHOLOGY LABORATORY TECHNICIANS</b>
3212-01	32125	Medical Technician, Grade U19
3212-02	32121	Anatomy Technician
3212-03	32121	Blood Bank Technician
3212-04	32121	Biophysics Technician
3212-05	32121	Ecology Technician
3212-06	32121	Genetics Technician
3212-07	32121	Haematology Technician
3212-08	32121	Histology Technician
3212-09	32121	Cytology Technician
3212-10	32122	Physiology Technician
3212-11	32122	Pathology Technician
3212-12	32122	Medical Science Technician
3212-13	32123	Parasitology Assistant
3212-14	New	Medical Laboratory Technician
3212-15	New	Surgical Technician
<b>3213</b>		<b>PHARMACEUTICAL TECHNICIANS AND ASSISTANTS</b>
3213-01	32131	Pharmaceutical Assistant
3213-02	32132	Pharmaceutical Laboratory Assistant
3213-03	New	Pharmaceutical Technician
3213-04	New	Pharmacy Aide
<b>3214</b>		<b>MEDICAL AND DENTAL PROSTHETIC TECHNICIANS</b>
3214-01	New	Dental Technician
3214-02	New	Denturist
3214-03	New	Orthotic Technician
3214-04	New	Orthotist
<b>3215</b>		<b>ORTHOTIC AND PROSTHETIC TECHNICIANS</b>
3215-01	32152	Orthopaedic Technician
3215-02	32152	Prosthetic Technician
<b>3221</b>		<b>NURSING ASSOCIATE PROFESSIONALS (EXCEPT DENTAL)</b>
3221-01	32214	Nurse, Grade U29
3221-02	New	Assistant Nurse
3221-03	New	Enrolled Nurse

MASCO 2013	MASCO 2008	JOB TITLE
3221-04	New	Practical Nurse
<b>3222</b>		<b>MIDWIFERY ASSOCIATE PROFESSIONALS</b>
3222-01	32222	Community Nurse, Grade U19
3222-02	32221	Traditional Midwife
3222-03	New	Midwifery Assistant
<b>3231</b>		<b>TRADITIONAL AND COMPLEMENTARY MEDICINE ASSOCIATE PROFESSIONALS</b>
3231-01	32301	Traditional Malay Medicine Practitioner
3231-02	32302	Traditional Chinese Medicine Practitioner
3231-03	32303	Traditional Indian Medicine Practitioner
3231-04	32302	Traditional Chinese Medicine Dispenser
3231-05	32307	Village Healer
3231-06	New	Cupping Therapist
3231-07	New	Bonesetter
3231-08	New	Herbalist
<b>3241</b>		<b>VETERINARY TECHNICIANS AND ASSISTANTS</b>
3241-01	32405	Veterinary Assistant, Grade G17
3241-02	New	Veterinary Technician
3241-03	New	Veterinary Biotech Research Technician
3241-04	32403	Veterinary Vaccinator
3241-05	32401	Veterinary Assistant
3241-06	32402	Veterinary Artificial Insemination Assistant
3241-07	New	Artificial Inseminator
3241-08	New	Veterinary Biotech Production Technician
3241-09	New	Veterinary Nurse
<b>3251</b>		<b>DENTAL ASSISTANTS AND THERAPISTS</b>
3251-01	32513	Dental Nurse, Grade U29
3251-02	53212	Dental Surgery Assistant, Grade U17
3251-03	32511	Dental Health Nurse
3251-04	32511	Dental Nurse
3251-05	32511	Dental School Nurse
3251-06	32512	Dental Assistant
3251-07	New	Dental Hygienist
3251-08	New	Dental Therapist
<b>3252</b>		<b>MEDICAL RECORD AND HEALTH INFORMATION TECHNICIANS</b>
3252-01	32521	Medical Record Technician
3252-02	New	Clinical Coder
3252-03	New	Disease Registry Technician
3252-04	New	Medical Record Analyst
3252-05	New	Health Information Clerk
3252-06	New	Medical Record Clerk
<b>3253</b>		<b>COMMUNITY HEALTH WORKERS</b>
3253-01	New	Community Health Aide
3253-02	New	Community Health Promoter
3253-03	New	Community Health Worker
3253-04	New	Village Health Worker
<b>3254</b>		<b>DISPENSING OPTICIANS</b>
3254-01	32541	Optician, Contact Lens Dispensing
3254-02	New	Contact Lens Optician
3254-03	New	Dispensing Optician
<b>3255</b>		<b>PHYSIOTHERAPY TECHNICIANS AND ASSISTANTS</b>
3255-01	New	Physiotherapy Assistant
3255-02	32551	Electrotherapist

MASCO 2013	MASCO 2008	JOB TITLE
3255-03	New	Acupressure Therapist
3255-04	New	Hydrotherapist
3255-05	New	Massage Therapist
3255-06	New	Physiotherapy Technician
3255-07	New	Physical Rehabilitation Technician
3255-08	New	Shiatsu Therapist
<b>3256</b>		<b>MEDICAL ASSISTANTS</b>
3256-01	New	Public Health Assistant, Grade U17
3256-02	32531	Medical Laboratory Assistant
3256-03	32531	Hospital Assistant
3256-04	32531	Medical Assistant
3256-05	32532	Clinical Assistant
3256-06	32561	Radiology Equipment Technician
3256-07	32561	Radiology Equipment Technician, Medical, General
3256-08	32561	X-Ray Equipment Technician
3256-09	32562	Electrocardiograph Equipment Technician
3256-10	32563	Electroencephalograph Equipment Technician
3256-11	32563	Scanning Equipment Technician
3256-12	32564	Sonographer
3256-13	32565	Ultrasonographer
3256-14	32532	Clinical Instructor
3256-15	New	Ophthalmic Assistant
<b>3257</b>		<b>ENVIRONMENTAL AND OCCUPATIONAL HEALTH INSPECTORS AND ASSOCIATES</b>
3257-01	32573	Public Health Inspector
3257-02	New	Public Health Safety Inspector
3257-03	New	Public Health Unit Supervisor
3257-04	New	Public Health Restaurant Inspector
3257-05	32571	Occupational Safety and Health Inspector
3257-06	New	Occupational Hygiene Inspector
3257-07	New	Occupational Safety Inspector
3257-08	New	Occupational Health Inspector
3257-09	New	Occupational Health Supervisor
3257-10	New	Occupational Hygiene Inspector
3257-11	New	Occupational Hygiene Technician
3257-12	32571	Product Quality Inspector
3257-13	32571	Safety and Health Technician
3257-14	32573	Safety and Health Inspector, Pollution
3257-15	32573	Safety and Health Inspector, Consumer Protection
3257-16	New	Safety and Health Inspector
3257-17	32573	Sanitary Inspector
3257-18	New	Sanitary Standards Inspector
3257-19	32575	Vehicle Safety Inspector
3257-20	New	Beauty Salon Inspector
3257-21	New	Dangerous Goods Inspector
3257-22	New	Dangerous Waste Inspector
3257-23	New	Environmental Safety and Health Technician
3257-24	New	Environmental Health Inspector
3257-25	New	Field Supervisor - Occupational Safety and Health
3257-26	New	Flood Damage Inspector
3257-27	New	Food Inspector
3257-28	New	Hazardous Waste Inspector
3257-29	New	Health Standards Inspector
3257-30	New	Hotel and Restaurant Inspector
3257-31	New	Industrial Hygiene Inspector
3257-32	New	Industrial Waste Control Inspector
3257-33	New	Nursing Home Inspector
3257-34	New	Sewage Disposal Inspector
3257-35	New	Water Inspector

MASCO 2013	MASCO 2008	JOB TITLE
3257-36	New	Mine Safety Inspector
3257-37	New	Mine Examiner
3257-38	New	Pollution Control Inspector
3257-39	New	Radiation Monitor
3257-40	New	Restaurant Inspector
3257-41	New	Rodent Control Inspector
3257-42	New	Safety and Sanitary Inspector
3257-43	New	Waste Water Treatment Plant Inspector
3257-44	New	Food Sanitation and Safety Inspector
3257-45	New	Health Inspector
<b>3258</b>		<b>AMBULANCE ASSISTANTS</b>
3258-01	32581	Ambulance Assistant
3258-02	New	Ambulance Officer
3258-03	New	Ambulance Paramedic
3258-04	New	Emergency Medical Technician
3258-05	New	Emergency Paramedic
<b>3259</b>		<b>HEALTH ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED</b>
3259-01	22643	Chiropractor
3259-02	22129	Osteopath
<b>3311</b>		<b>SECURITIES AND FINANCE DEALERS AND BROKERS</b>
3311-01	33111	Securities Broker
3311-02	33112	Stock and Share Broker
3311-03	33113	Foreign Exchange Broker
3311-04	33114	Stock Broker
3311-05	33115	Investment Broker
3311-06	New	Foreign Exchange Dealer
<b>3312</b>		<b>CREDIT AND LOAN OFFICERS</b>
3312-01	33121	Mortgage Officer
3312-02	33121	Loan Officer
3312-03	33121	Credit Control Executive
3312-04	33121	Credit Supervisor
3312-05	33122	Claim Executive
3312-06	33122	General Ledger Officer
3312-07	33122	Costing Executive
<b>3313</b>		<b>ACCOUNTING ASSOCIATE PROFESSIONALS</b>
3313-01	43116	Accounting Assistant, Grade W17
3313-02	43114	Audit Assistant, Grade W17
3313-03	43117	Administrative Assistant (Audit), Grade 21
3313-04	MIDA	Executive Assistant (Audit), Grade 3
3313-05	43111	Book-Keeper
3313-06	33411	Accounts Supervisor
3313-07	33133	Financial Supervisor
3313-08	New	Financial Assistant
<b>3314</b>		<b>STATISTICAL, MATHEMATICAL AND ACTUARIAL ASSOCIATE PROFESSIONALS</b>
3314-01	43124	Statistical Assistant, Grade E17
3314-02	43128	Mathematical Assistant
3314-03	43128	Actuarial Assistant
<b>3315</b>		<b>VALUERS AND LOSS ASSESSORS</b>
3315-01	43126	Valuation Assistant, Grade W17
3315-02	33151	Appraiser
3315-03	33153	Valuer
3315-04	33153	Revenue Assessor
3315-05	33155	Claim Inspector

MASCO 2013	MASCO 2008	JOB TITLE
3315-06	33155	Claim Assessor
3315-07	33156	Insurance Adjuster
3315-08	33157	Insurance Assessor
3315-09	New	Real Estate Appraiser
<b>3321</b>		<b>INSURANCE AGENTS</b>
3321-01	33211	Insurance Agent
3321-02	33212	Insurance Broker
3321-03	33213	Insurance Underwriter
3321-04	New	Insurance Consultant
3321-05	New	Insurance Representative
<b>3322</b>		<b>COMMERCIAL SALES AGENT</b>
3322-01	New	Salesperson
3322-02	33222	After Sales Service Adviser
3322-03	33223	Canvasser
3322-04	33224	Sales Representative
3322-05	33225	Salesperson, Travel
3322-06	33225	Salesperson, Technical
3322-07	33225	Engineering Sales Agent
3322-08	33225	Technical Sales Agent
3322-09	33225	Technical Adviser
3322-10	33225	Representative, Commercial Technical Sales
3322-11	33226	Salesperson, Business Services Advertising
3322-12	33221	Export Executive
3322-13	33227	Sales Executive
3322-14	33227	Marketing Executive
3322-15	33227	Business Development Executive
3322-16	33227	Sales Administrative Executive
3322-17	33227	Product Brand Executive
3322-18	33227	Executive Analyst, Market Research
3322-19	33227	Field Consultant
3322-20	33227	Support Salesperson
3322-21	33227	Area Support Sales Engineer
3322-22	33228	Salesperson, Car
3322-23	33228	Salesperson, Motor Vehicle
3322-24	33228	Salesperson, Motorcycle
3322-25	33229	Commercial Railway Officer
3322-26	New	Regional Sales Executive
3322-27	New	Offshore Sales Executive
<b>3323</b>		<b>BUYERS</b>
3323-01	33231	Planning and Distribution Executive
3323-02	33231	Purchasing Executive
3323-03	33231	Buyer
3323-04	33231	Buyer, Production Purchasing
3323-05	33232	Procurement Agent
3323-06	33233	Procurement Executive
3323-07	New	Purchasing Agent
3323-08	New	Procurement Officer
3323-09	New	Supply Officer
3323-10	New	Purchasing Merchandiser
<b>3324</b>		<b>TRADE BROKERS</b>
3324-01	33241	Commodity Broker
3324-02	New	Shipping Broker
3324-03	New	Trade Broker
<b>3331</b>		<b>CLEARING AND FORWARDING AGENTS</b>
3331-01	33311	Clearing Agent



MASCO 2013	MASCO 2008	JOB TITLE
3331-02	33311	Forwarding Agent
3331-03	33312	Shipping Agent
<b>3332</b>		<b>CONFERENCE AND EVENT AGENTS</b>
3332-01	33321	Exhibition and Convention Consultant
3332-02	33322	Exhibition and Convention Organiser
3332-03	33323	Travel Consultant
3332-04	33324	Travel Organiser
3332-05	New	Conference and Event Organiser
3332-06	New	Wedding Planner
3332-07	New	Conference Planner
<b>3333</b>		<b>EMPLOYMENT AGENTS AND CONTRACTORS</b>
3333-01	33331	Employment Agent
3333-02	33332	Job Placement Officer
3333-03	New	Labour Contractor
<b>3334</b>		<b>REAL ESTATE AND PROPERTY AGENTS</b>
3334-01	33341	Real Estate Agent
3334-02	33342	Property Agent
3334-03	33343	Property Realtor
3334-04	33344	Property Negotiator
3334-05	New	Estate Agent
3334-06	New	Real Estate Salesperson
<b>3339</b>		<b>BUSINESS SERVICES AGENTS NOT ELSEWHERE CLASSIFIED</b>
3339-01	33151	Auctioneer
3339-02	33391	Literary Agent
3339-03	33392	Musical Performance Agent
3339-04	33393	Sports Agent
3339-05	33394	Theatrical Agent
3339-06	33395	Sports Organiser
<b>3341</b>		<b>ADMINISTRATIVE ASSOCIATE PROFESSIONALS</b>
3341-01	33436	Sergeant-at-Arms, Grade N27
3341-02	33411	Data Entry Supervisor
3341-03	33411	Hospital Admission Clerical Supervisor
3341-04	33411	Filing Clerical Supervisor
3341-05	33411	Administrative Supervisor
3341-06	33411	Clerical Supervisor
3341-07	33411	Medical Record Unit Supervisor
3341-08	33412	Personnel Clerk Supervisor
3341-09	33412	Human Resource Supervisor
3341-10	33413	Management Trainee
3341-11	33414	Factory Administrator
<b>3342</b>		<b>LEGAL SECRETARIES</b>
3342-01	44196	Shariah Assistant, Grade LS17
3342-02	33421	Legal Secretary
<b>3343</b>		<b>ADMINISTRATIVE AND EXECUTIVE SECRETARIES</b>
3343-01	33438	Assistant Executive Officer (Secretarial), Grade 31
3343-02	MIDA	Assistant Executive Officer (Secretarial), Grade 6
3343-03	SPAD	Assistant Executive Officer (Secretarial), Grade L8
3343-04	41202	Personal Assistant
3343-05	New	Administrative Executive Assistant
3343-06	33432	Executive Secretary, Government Administration
3343-07	New	Company Secretary (Public Sector)
3343-08	33431	Verbatim Reporter
3343-09	33431	Office Chief Secretary

MASCO 2013	MASCO 2008	JOB TITLE
3343-10	33431	Executive Secretary
3343-11	33431	Executive Secretary, Committee
3343-12	33431	Executive Secretary, Non-Government Administration
3343-13	33431	Executive Secretary, Administration
3343-14	33431	Company Secretary
3343-15	33433	Consular Official
3343-16	33439	Assistant Secretarial Executive Officer
3343-17	New	Administrative Secretary
3343-18	41102	Correspondence Assistant
<b>3344</b>		<b>MEDICAL SECRETARIES</b>
3344-01	33441	Medical Secretary
3344-02	New	Medical Office Administrative Assistant
3344-03	New	Hospital Ward Secretary
3344-04	New	Patient Care Secretary
3344-05	New	Medical Stenographer
3344-06	New	Medical Insurance Assistant
3344-07	New	Medical Billing Secretary
3344-08	New	Pathology Secretary
3344-09	New	Medical Transcriptionist
<b>3411</b>		<b>LEGAL AND RELATED ASSOCIATE PROFESSIONALS</b>
3411-01	44195	Administrative Assistant (Legal), Grade L17
3411-02	44194	Anti-Drug Assistant, Grade S17
3411-03	44192	Bailiff
3411-04	New	Private Detective
3411-05	54196	Private Investigator
3411-06	New	Legal Assistant
3411-07	New	Conveyancing Clerk
3411-08	New	Paralegal
3411-09	New	Law Clerk
3411-10	44199	Clerk, Judge
3411-11	44199	Clerk, Court
3411-12	44199	Litigation Clerk
3411-13	44199	Assistant, Barrister
3411-14	44199	Assistant, Solicitor
<b>3511</b>		<b>INFORMATION AND COMMUNICATIONS TECHNOLOGY OPERATION TECHNICIANS</b>
3511-01	35114	Computer Technician, Grade FT17
3511-02	New	Administrative Assistant (Computer Operator), Grade 21
3511-03	35115	Administrative Assistant (Computer Technician), Grade 21
3511-04	MIDA	Executive Assistant (Information Technology), Grade 3
3511-05	35111	Computer Technician
3511-06	35111	Computer Peripheral Equipment Technician
3511-07	35111	Computer Peripheral Equipment Console Technician
3511-08	35111	Computer Peripheral Equipment High-Speed Printer Technician
3511-09	35111	Electronic Data Processing (EDP) Technician
3511-10	35111	Engineering Computer Assistant
3511-11	35111	Assistant Supervisor, Electronic Data Processing (EDP)
3511-12	35111	Electronic Data Processing Supervisor
3511-13	35112	Semi-Conductor Technician
3511-14	35113	Information Systems Technician
3511-15	35113	Information Technology Assistant
3511-16	New	Computer Console Operator
3511-17	New	System Operator
3511-18	New	Computer Operator
3511-19	New	High-Speed Computer Printer Operator
3511-20	New	Computer Peripheral Equipment Operator
3511-21	New	Hardware Technician

MASCO 2013	MASCO 2008	JOB TITLE
<b>3512</b>		<b>INFORMATION AND COMMUNICATIONS TECHNOLOGY USER SUPPORT TECHNICIANS</b>
3512-01	35121	Computer Help Desk Technician
3512-02	35121	Personal Computer Support Technician
3512-03	35121	Information Technology Technician
3512-04	35122	Computer Help Desk Operator
3512-05	35122	Computer Engineering Assistant
3512-06	35122	Computer Assistant
3512-07	35122	Communications Assistant (ICT)
3512-08	35122	Database Assistant
3512-09	35122	Computer Programming Assistant
3512-10	35122	Computer User Service Assistant
3512-11	New	Customer Help Desk Officer
3512-12	New	Call Centre Trainer
3512-13	New	Computer Systems Analysis Assistant
<b>3513</b>		<b>COMPUTER NETWORK AND SYSTEMS TECHNICIANS</b>
3513-01	35131	Computer Network Technician
3513-02	35132	Network Support Technician
<b>3514</b>		<b>WEB TECHNICIANS</b>
3514-01	35141	Website Technician
3514-02	35141	Web Technician
<b>3521</b>		<b>BROADCASTING AND AUDIO-VISUAL TECHNICIANS</b>
3521-01	35216	Audio-Visual Technician, Grade N17
3521-02	35211	Cinematographer
3521-03	35211	Audio-Visual Operator
3521-04	35211	Production Assistant (Media)
3521-05	35211	Motion Picture Assistant
3521-06	35212	Sound Effects Technician
3521-07	35212	Dubbing Mixer
3521-08	35212	Sound Mixer
3521-09	35212	Sound Editor
3521-10	35213	Cinema Projectionist
3521-11	35214	Marine Radio Officer
3521-12	35216	Broadcast Technician
3521-13	35216	Audio and Video Equipment Technician
3521-14	35216	Broadcasting Equipment Technician
3521-15	35216	Radio and Television Broadcasting Equipment Technician
3521-16	35216	Land-Based Radio Equipment Technician
3521-17	35216	Flight Radio Equipment Technician
3521-18	35216	Telecommunications Equipment Technician
3521-19	35216	Radio and Television Transmitting Equipment Technician
3521-20	New	Broadcasting Equipment Operator
3521-21	New	Cameraman/woman (Motion Picture)
3521-22	New	Cameraman/Woman (Video)
3521-23	New	Videographer
<b>3522</b>		<b>TELECOMMUNICATIONS ENGINEERING TECHNICIANS</b>
3522-01	35221	Aerospace Engineering Technician (Telecommunications)
3522-02	35222	Engineering Technician (Telecommunications)
3522-03	New	Communications Technician
3522-04	New	Telecommunications Technician
<b>3611</b>		<b>SOCIAL WORK ASSOCIATE PROFESSIONALS</b>
3611-01	44164	Community Development Assistant, Grade S17
3611-02	44165	Social Research Assistant, Grade N17
3611-03	34121	Social Worker
3611-04	34121	Social Worker, Group Work
3611-05	34121	Welfare Officer, Industry

MASCO 2013	MASCO 2008	JOB TITLE
3611-06	34121	Welfare Officer, Probation
3611-07	34121	Parole Officer, Associate Professional
3611-08	34121	Probation Officer, Associate Professional
3611-09	34121	Officer, Family Planning
3611-10	34121	Social Welfare Worker
3611-11	34121	Social Welfare Worker, Case Work
3611-12	34121	Social Worker, Child Welfare
3611-13	34121	Social Worker, Delinquency
3611-14	34121	Social Worker, Community
3611-15	34121	Social Worker, Medical
3611-16	34121	Social Worker, Psychiatric
3611-17	34121	Welfare Organiser
3611-18	34129	Counselling Assistant
3611-19	New	Community Development Worker
3611-20	New	Community Service Worker
3611-21	New	Disability Service Officer
3611-22	New	Family Service Worker
3611-23	New	Life Skills Instructor
3611-24	New	Mental Health Worker
3611-25	New	Welfare Support Worker
3611-26	New	Women's Shelter Supervisor
3611-27	New	Youth Worker
<b>3612</b>		<b>RELIGIOUS ASSOCIATE PROFESSIONALS</b>
3612-01	44191	Islamic Affairs Assistant, Grade S17
3612-02	34131	Monk
3612-03	34132	Nun
3612-04	34133	Preacher
3612-05	34134	Bilal
3612-06	32308	Faith Healer
<b>3621</b>		<b>ATHLETES AND SPORTS PLAYERS</b>
3621-01	34211	Sportsperson
3621-02	34212	Athlete
3621-03	New	Boxer
3621-04	New	Footballer
3621-05	New	Hockey Player
3621-06	New	Tennis Player
3621-07	New	Wrestler
3621-08	New	Chess Player
3621-09	New	Golfer
3621-10	New	Jockey
3621-11	New	Racing driver
<b>3622</b>		<b>SPORTS COACHES, INSTRUCTORS AND OFFICIALS</b>
3622-01	24327	Youth and Sports Officer, Grade S41
3622-02	34128	Assistant Youth and Sports Officer, Grade S27
3622-03	34222	Marching Instructor, Grade S17
3622-04	54128	Kesatria Assistant, Grade S17
3622-05	41105	Youth and Sports Assistant, Grade S17
3622-06	34221	Sports Official
3622-07	34221	Referee
3622-08	34221	Sports Coach
3622-09	34223	Aerobics Coach
3622-10	34224	Judo Coach
3622-11	34224	Karate Coach
3622-12	34224	Silat Coach
3622-13	34224	Taekwando Coach
3622-14	34225	Tennis Coach
3622-15	34226	Tai Chi Coach

MASCO 2013	MASCO 2008	JOB TITLE
3622-16	34226	Yoga Coach
3622-17	34227	Swimming Coach
3622-18	34228	Coach, Instructor and Other Sports Official (Indoor)
3622-19	34229	Coach, Instructor and Other Sports Official (Outdoor)
3622-20	34229	Sports Instructor
3622-21	34229	Group Training Instructor & Coordinator
3622-22	34229	Linesman
3622-23	New	Swimming Instructor
<b>3623</b>		<b>FITNESS AND RECREATION INSTRUCTORS AND PROGRAMME LEADERS</b>
3623-01	34231	Physical Fitness Instructor
3623-02	34232	Billiard Instructor
3623-03	34234	Chess Instructor
3623-04	34236	Sailing Instructor
3623-05	34237	Horse Riding Instructor
3623-06	34238	Outdoor Adventure Guide
3623-07	34239	Clubhouse Supervisor
3623-08	New	Personal Trainer
3623-09	New	Aerobics Instructor
3623-10	New	Underwater Diving Instructor
3623-11	New	Fitness Instructor
<b>3631</b>		<b>PHOTOGRAPHERS</b>
3631-01	New	Photographer, Grade B11
3631-02	New	Administrative Assistant (Photographer), Grade 21
3631-03	34311	Photographer
3631-04	34312	Commercial Illustration Photographer
3631-05	34313	Press Photographer
3631-06	34313	News Photographer
3631-07	34313	Photo-Journalist
3631-08	34314	Aerial Photographer
3631-09	34314	Microphotographer
3631-10	34315	Microphotography Photographer
3631-11	34315	Medical Photographer
3631-12	34315	Scientific Photographer
3631-13	New	Commercial Photographer
3631-14	New	Industrial Photographer
3631-15	New	Portrait Photographer
<b>3632</b>		<b>INTERIOR DESIGNERS AND DECORATORS</b>
3632-01	34328	Designer, Grade B11
3632-02	34323	Interior Designer
3632-03	34324	Furniture Designer
3632-04	34321	Poster Designer
3632-05	New	Desktop Publishing Artist
3632-06	34321	Book Illustrator
3632-07	34321	Advertising Illustrator
3632-08	34322	Display Artist
3632-09	34322	Display Decorator
3632-10	34322	Visual Merchandiser
3632-11	34322	Armorial Designer
3632-12	34322	Display Designer
3632-13	34322	Window Display Designer
3632-14	34322	Scenery Designer
3632-15	34322	Exhibition Designer
3632-16	34323	Interior Decorator
3632-17	34324	Ornamental Metalwork Designer
3632-18	34325	Motion Picture Set Decorator
3632-19	34325	Theatrical Set Designer
3632-20	34326	Flower Arranger

MASCO 2013	MASCO 2008	JOB TITLE
3632-21	34327	Carving Technician
3632-22	New	Set Designer
3632-23	New	Window Dresser
<b>3633</b>		<b>GALLERY, MUSEUM AND LIBRARY ASSOCIATE PROFESSIONALS</b>
3633-01	44197	Archive Assistant, Grade S17
3633-02	44193	Conservation Assistant, Grade S17
3633-03	44198	Museum Assistant, Grade S17
3633-04	44114	Library Assistant, Grade S17
3633-05	New	Gallery Technician
3633-06	New	Library Technician
3633-07	New	Museum Technician
3633-08	44112	Library Assistant
<b>3634</b>		<b>CULTURAL ASSOCIATE PROFESSIONALS</b>
3634-01	34351	Musician, Grade B17
3634-02	34354	Cultural Artist, Grade B17
<b>3639</b>		<b>ARTISTIC AND CULTURAL ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED</b>
3639-01	41107	Publication Assistant, Grade N17
3639-02	JPA	Programme Producer, Grade B17
3639-03	JPA	Cultural Officer, Grade B11
3639-04	New	Special Effects Technician
3639-05	New	Lighting Technician
3639-06	New	Programme CoOrdinator (Broadcasting)
3639-07	New	Prompter
3639-08	New	Property Master (Broadcasting)
3639-09	New	Script-Girl/Boy
3639-10	New	Stage Technician
3639-11	New	Stunt Coordinator
3639-12	New	Stunt Artist
3639-13	New	Theatre Technician
<b>3641</b>		<b>CHEFS</b>
3641-01	34491	Assistant Food Preparation Officer, Grade C27
3641-02	34341	Chef de Cuisine
3641-03	34342	Executive Chef
3641-04	34345	Sous Chef
3641-05	34344	Chefs De Partie
3641-06	34341	Senior Chef
3641-07	34343	Chef
3641-08	34343	Barbecue Chef
3641-09	34343	Dim Sum Chef
3641-10	34343	Malay Cuisine Chef
3641-11	34343	Pastry Chef
3641-12	34347	Demi Chef
3641-13	34348	Kitchen Coordinator
3641-14	New	Saucier
<b>3711</b>		<b>CUSTOMS AND BORDER INSPECTOR ASSOCIATE PROFESSIONALS</b>
3711-01	33511	Customs Inspector
3711-02	33511	Customs and Border Inspector
3711-03	33511	Border Inspector
3711-04	33512	Passport Checking Officer
<b>3712</b>		<b>TAXATION AND EXCISE OFFICIAL ASSOCIATE PROFESSIONALS</b>
3712-01	43119	Administrative Assistant (Appraisal), Grade 21
3712-02	33521	Tax Estimator Assistant
3712-03	New	Excise Assistant
3712-04	New	Tax Assistant



MASCO 2013	MASCO 2008	JOB TITLE
3712-05	New	Taxation Inspector's Assistant
<b>3713</b>		<b>GOVERNMENT SOCIAL BENEFIT OFFICIAL ASSOCIATE PROFESSIONALS</b>
3713-01	33531	Social Benefit Assistant
3713-02	33532	Social Security Claims Officer
3713-03	New	Pension Assistant
<b>3714</b>		<b>GOVERNMENT LICENSING OFFICIAL ASSOCIATE PROFESSIONALS</b>
3714-01	54154	Enforcement Assistant, Grade N17
3714-02	SPAD	Executive Assistant, Grade L11
3714-03	33541	Licensing Inspector
3714-04	33541	Licensing Assistant
3714-05	33541	Passport Issuing Assistant
3714-06	New	Building Permit (Licensing) Assistant
3714-07	New	Business Permit (Licensing) Assistant
<b>3715</b>		<b>POLICE OFFICERS</b>
3715-01	54125	Low-ranking officer and Constable, Grade YA1
3715-02	33551	Police Inspector
3715-03	33552	Police Detective
3715-04	New	Police Officer
3715-05	New	Police Inquiry Agent
3715-06	New	Police Patrol Officer
<b>3716</b>		<b>CIVIL DEFENCE ASSOCIATE PROFESSIONALS</b>
3716-01	54153	Civil Defence Assistant, Grade KP17
3716-02	33568	Civilian Liaison Officer, Grade KP19
3716-03	33561	Civil Service Inspector
3716-04	33562	Government Administration Inspector
3716-05	33565	RELA Officer
3716-06	33566	Territorial Army Personnel
<b>3719</b>		<b>REGULATORY GOVERNMENT ASSOCIATE PROFESSIONALS NOT ELSEWHERE CLASSIFIED</b>
3719-01	44162	Industrial Relations Assistant, Grade S17
3719-02	44163	Registration Assistant, Grade KP17
3719-03	JPA	Maritime Enforcement Officers of Other Ranks, Grade X1
3719-04	33591	Price Inspector
3719-05	33591	Fire and Safety Inspector
3719-06	33591	Weight and Measures Inspector
3719-07	33595	Wage Inspector
3719-08	33596	Electoral Officer
3719-09	New	Agricultural Inspector
3719-10	New	Livestock Inspector
3719-11	New	Forestry Inspector
3719-12		Executioner
<b>4</b>		<b>CLERICAL SUPPORT WORKERS</b>
<b>4111</b>		<b>GENERAL OFFICE CLERKS</b>
4111-01	41103	Administrative Assistant(Clerical/ Operation), Grade N17
4111-02	41106	Land Administrative Assistant, Grade N17
4111-03	41109	Administrative Assistant (Designer), Grade 21
4111-04	New	Administrative Assistant (Clerical), Grade 21
4111-05	New	Administrative Assistant (Engineering), Grade 21
4111-06	MIDA	Executive Assistant (Administration and Support), Grade 3
4111-07	MIDA	Executive Assistant (Engineering), Grade 3
4111-08	SPAD	Executive Assistant (Clerical), Grade L11
4111-09	41101	General Office Clerk
4111-10	41101	Office Clerk
4111-11	41101	Administrative Clerk

MASCO 2013	MASCO 2008	JOB TITLE
4111-12	41101	Room Service Clerk
4111-13	41101	Confidential Clerk
4111-14	41101	Correspondence Clerk
4111-15	41101	Chief Clerk
4111-16	41101	Office Chief
4111-17	41101	Political Worker
4111-18	41101	Administrative Assistant
4111-19	New	General Administrative Assistant
<b>4121</b>		<b>SECRETARIES (GENERAL)</b>
4121-01	41206	Office Secretary, Grade N27
4121-02	New	Office Secretarial Assistant, Grade N17
4121-03	JPA	Office Secretarial Assistant /Office Secretary, Grade N17
4121-04	New	Administrative Assistant (Secretarial), Grade 21
4121-05	MIDA	Executive Assistant (Secretarial), Grade 3
4121-06	41208	Secretarial Administrative Assistant
4121-07	41205	Administrative Assistant (Secretarial)
4121-08	41201	Secretary
4121-09	41201	Word Processing Secretary
4121-10	41201	Typing Secretary
4121-11	41201	Confidential Secretary
4121-12	41201	Stenographer Secretary
4121-13	41201	Stenography Typing Secretary
4121-14	41203	Admission Secretary
4121-15	41204	Sales Secretary
4121-16	33491	School Secretary
<b>4131</b>		<b>TYPISTS AND WORD PROCESSOR OPERATORS</b>
4131-01	41311	Typist
4131-02	41311	Stenographer
4131-03	41311	Statistical Typist
4131-04	41311	Shorthand Typist
4131-05	41311	Audio Typist
4131-06	41311	Teletypist
4131-07	41311	Justowriter
4131-08	41312	Word Processor
4131-09	New	General Typing Assistant
<b>4132</b>		<b>DATA ENTRY CLERKS</b>
4132-01	44166	Fingerprint Examiner, Grade N17
4132-02	41323	Index Clerk
4132-03	41324	Records Clerk
4132-04	New	Data Input Clerk
4132-05	New	General Information Technology Assistant (Data Processing Machine Operator)
4132-06	41321	Computer Data Entry Clerk
4132-07	41321	Electronic Mail Data Entry Clerk
4132-08	New	Data Entry Operator
4132-09	New	Payment Entry Clerk
4132-10	41101	Information Technology Clerk
4132-11	41102	Management Information System Clerk
<b>4211</b>		<b>BANK TELLERS AND RELATED CLERKS</b>
4211-01	42113	Postal Clerk
4211-02	42111	Bank Teller
4211-03	42112	Cash Counter Clerk
4211-04	42114	Money Changer
4211-05	42115	Currency Sorter
4211-06	42116	Safe Deposit Clerk
4211-07	42117	Bank Clerk
4211-08	42118	Bank Assistant

MASCO 2013	MASCO 2008	JOB TITLE
4211-09	New	Post Office Counter Clerk
<b>4212</b>		<b>BOOKMAKERS, CROUPIERS AND RELATED GAMING WORKERS</b>
4212-01	42121	Betting Counter Clerk
4212-02	42121	Bookmaker's Clerk
4212-03	42122	Croupier
4212-04	42123	Casino Clerk
<b>4213</b>		<b>PAWNBROKERS AND MONEY-LENDERS</b>
4213-01	42131	Pawnbroker
4213-02	42132	Money-Lender
<b>4214</b>		<b>DEBT AND RENT COLLECTORS AND RELATED WORKERS</b>
4214-01	42141	Payment Collector
4214-02	42141	Bill Collector
4214-03	42142	Charity Collector
4214-04	42143	Debt Collector
4214-05	42144	Rent Collector
4214-06	42145	Rental Clerk
4214-07	42145	Heavy Vehicle Rental Clerk
4214-08	42145	Car Rental Clerk
4214-09	42145	Costume Rental Clerk
4214-10	42145	Audio Visual Equipment Rental Clerk
4214-11	42145	Video Tape Rental Clerk
4214-12	43128	Book-Loan Clerk
<b>4221</b>		<b>TRAVEL CONSULTANTS AND RELATED CLERKS</b>
4221-01	New	Travel Consultant
4221-02	New	Travel Coordinator
4221-03	42213	Travel Agency Clerk
4221-04	42214	Booking Clerk
4221-05	42213	Travel Clerk
4221-06	42211	Travel Ticket Issuing Clerk
4221-07	42212	Airline Travel Clerk
<b>4222</b>		<b>CONTACT /CALL CENTRE INFORMATION CLERKS</b>
4222-01	42223	Information Assistant, Grade S17
4222-02	42221	Appointment Clerk
4222-03	42222	Customer Service Supervisor
4222-04	42225	Call Centre Clerk
4222-05	New	Customer Service Assistant
4222-06	New	Call Centre Agent (Customer Service)
4222-07	New	Call Centre Representative
4222-08	New	Customer Contact Centre Information Clerk
<b>4223</b>		<b>TELEPHONE SWITCHBOARD OPERATORS</b>
4223-01	New	Telecommunications Service Operator
4223-02	42231	Private Branch Exchange Telephone Operator
4223-03	42231	Telephone Exchange Telephone Operator
4223-04	42231	Telephonist
4223-05	42232	Telephone Switchboard Operator
4223-06	42233	Telecommunications Service Supervisor
4223-07	New	General Assistant (Telephone Operator)
4223-08	New	Answering Service Operator
<b>4224</b>		<b>RECEPTIONISTS</b>
4224-01	42261	Receptionist
4224-02	42262	Medical Receptionist
4224-03	42263	Dental Receptionist
4224-04	42264	Telephone Receptionist

MASCO 2013	MASCO 2008	JOB TITLE
4224-05	42265	Front Office Receptionist
4224-06	42266	Front Office Assistant
4224-07	42266	Front Office Supervisor
4224-08	42266	Front Office Personnel
4224-09	42267	Guest Service Agent
4224-10	42241	Hotel Receptionist
4224-11	42242	Hotel Front Desk Clerk
4224-12	42243	Reservation Assistant
4224-13	42243	Reservation Supervisor
4224-14	42228	Concierge
<b>4225</b>		<b>ENQUIRY CLERKS</b>
4225-01	42228	Administrative Assistant (Customer Service), Grade 21
4225-02	42227	Customer Service Officer, Grade N17
4225-03	42251	Customer Complaint Clerk
4225-04	42252	Counter Enquiry Clerk
4225-05	42253	Enquiry Clerk
4225-06	42221	Information Clerk
<b>4226</b>		<b>SURVEY AND MARKET RESEARCH INTERVIEWERS</b>
4226-01	42271	Market Research Interviewer
4226-02	42272	Public Opinion Interviewer
4226-03	42273	Survey Interviewer
<b>4229</b>		<b>CLIENT INFORMATION WORKERS NOT ELSEWHERE CLASSIFIED</b>
4229-01	42291	Hospital Admissions Clerk
4229-02	42292	Eligibility Interviewer
4229-03	42293	Eligibility Specialist
<b>4311</b>		<b>ACCOUNTING AND BOOK-KEEPING CLERKS</b>
4311-01	43111	Administrative Assistant (Accounting), Grade 21
4311-02	MIDA	Executive Assistant (Accounting), Grade 3
4311-03	43111	Ledger Clerk
4311-04	43111	Book-Keeping Machine Clerk
4311-05	43111	Book-Keeping Clerk
4311-06	43111	Ledger Book-Keeper
4311-07	43112	Accounts Clerk
4311-08	43112	Accounts Payable Clerk
4311-09	43112	Accounts Receivable Clerk
4311-10	43112	Accounts and Promotion Clerk
4311-11	43112	Invoice Clerk
4311-12	43112	Auction Clerk
4311-13	43112	Accounting Machine Clerk
4311-14	43112	Administrative and Accounting Clerk
4311-15	43115	Audit Clerk
4311-16	43115	Credit Control Clerk
4311-17	43115	Credit Clerk
4311-18	43115	Credit Control Assistant
4311-19	43117	Billing Clerk
4311-20	43117	Property Clerk
4311-21	43117	Cost Clerk
4311-22	43117	Time Clerk
4311-23	43117	Estimating Clerk
4311-24	43117	Cost Computing Clerk
4311-25	43117	Office Cash Clerk
4311-26	43117	Costing Assistant
<b>4312</b>		<b>STATISTICAL, FINANCE AND INSURANCE CLERKS</b>
4312-01	43118	Administrative Assistant (Finance), Grade W17
4312-02	MIDA	Executive Assistant (Finance), Grade 3

MASCO 2013	MASCO 2008	JOB TITLE
4312-03	43121	Statistical Clerk
4312-04	43123	Social and Economic Data Enumerator
4312-05	43123	Field Enumerator
4312-06	43123	Opinion Polling Enumerator
4312-07	43123	Market Research Enumerator
4312-08	43128	Insurance Underwriting Clerk
4312-09	43128	Claims Clerk
4312-10	43128	Insurance Underwriting Supervisory Assistant
4312-11	43128	Insurance Adjustment Assistant
4312-12	43128	Insurance Underwriting Assistant
4312-13	43128	Insurance Policy Assistant
4312-14	43128	Insurance Claims Assistant
4312-15	43127	Finance Clerk
4312-16	43128	Plantation Finance Clerk
4312-17	43115	Actuarial Clerk
4312-18	43115	Brokerage Clerk
4312-19	New	Insurance clerk
4312-20	43115	Tax Clerk
4312-21	43115	Investment Clerk
4312-22	43115	Adjustment Clerk
4312-23	43115	Brokerage Clerk
4312-24	43115	Share and Stock Registration Clerk
4312-25	43115	Rating Clerk
4312-26	43115	Brokerage Assistant
4312-27	43115	Bond Clerk
4312-28	43115	Collateral Clerk
4312-29	43115	Mortgage Clerk
<b>4313</b>		<b>PAYROLL CLERKS</b>
4313-01	43131	Payroll Clerk
4313-02	43131	Wages Clerk
4313-03	43132	Paymaster
4313-04	New	Payroll Processor
<b>4321</b>		<b>STOCK CLERKS</b>
4321-01	43211	Raw Material Clerk
4321-02	43211	Supply Clerk
4321-03	43211	Warehouse Clerk
4321-04	43211	Receiving Clerk
4321-05	43211	Delivery and Receiving Clerk
4321-06	43211	Store Clerk
4321-07	43211	Raw Material Store Clerk
4321-08	New	Stock Worker
4321-09	43211	Warehouse Assistant
4321-10	43211	Store Receiving Assistant
4321-11	43211	Store Assistant
4321-12	43211	Store Controller
4321-13	43211	Storekeeper
4321-14	43211	Material Storekeeper
4321-15	43211	Finished Goods Storekeeper
4321-16	43211	Store Coordinator
4321-17	43212	Stock Control Clerk
4321-18	43212	Food and Beverage Control Clerk
4321-19	43212	Stock Clerk
4321-20	43212	Plantation Stock Clerk
4321-21	43212	Stock Record Clerk
4321-22	43213	Weighing Clerk
4321-23	43213	Weighbridge Clerk
4321-24	43213	Weighbridge-Security Controller
4321-25	43214	Shipping Clerk

MASCO 2013	MASCO 2008	JOB TITLE
4321-26	43215	Tally Clerk
4321-27	43216	Hotel Linen Supply and Lodging Clerk
4321-28	43216	Hotel Kitchen Clerk
4321-29	43216	Inventory Clerk
4321-30	43216	Inventory Purchasing Clerk
4321-31	43217	Freight Clerk
4321-32	43217	Freight Inward Clerk
4321-33	43217	Freight Routing Clerk
4321-34	43217	Freight Despatching Clerk
4321-35	43217	Freight Receiving Clerk
4321-36	43217	Freight Traffic Clerk
4321-37	43217	Cargo Clerk
4321-38	43218	Import-Export Clerk
4321-39	43218	Grading Clerk
4321-40	New	Storeroom Clerk
<b>4322</b>		<b>PRODUCTION CLERKS</b>
4322-01	New	Clerk, Production
4322-02	43221	Clerk, Production Control
4322-03	43221	Clerk, Operation
4322-04	43221	Clerk, Plantation
4322-05	43221	Clerk, Engineering
4322-06	43221	Clerk, Quality and Ecology
4322-07	43221	Clerk, Mill Office
4322-08	43221	Clerk, Logging
4322-09	43221	Clerk, Procurement Purchasing
4322-10	43221	Clerk, Packing
4322-11	43221	Clerk, Procurement
4322-12	43221	Clerk, Order Management
4322-13	43221	Clerk, Production Administration
4322-14	43221	Clerk, Maintenance
4322-15	43221	Clerk, Motor Maintenance
4322-16	43221	Clerk, Food and Beverage Research
4322-17	43221	Clerk, Material Planning
4322-18	43221	Clerk, Material Order
4322-19	43221	Site Coordinator
4322-20	43222	Clerk, Tool
4322-21	43222	Clerk, Service
4322-22	43222	Clerk, Site
4322-23	43223	Clerk, Power Plant
4322-24	43224	Clerk, Production Planning
4322-25	43226	Clerk, Technician
4322-26	43226	Clerk, Facility Maintenance
4322-27	43226	Clerk, Technical
4322-28	43227	Clerk, Quality Assurance
4322-29	43227	Clerk, Quantity Control
4322-30	New	Schedule Clerk (Materials)
<b>4323</b>		<b>TRANSPORT CLERKS</b>
4323-01	43231	Logistics Clerk
4323-02	43231	Transport Clerk
4323-03	43232	Claims Clerk, Transport
4323-04	43232	Control Clerk, Train
4323-05	43232	Control Clerk, Railway Service
4323-06	43232	Dispatch Clerk, Train
4323-07	43232	Dispatch Clerk, Railway
4323-08	43232	Railway Yardmaster
4323-09	43233	Inspector, Road Transport Services
4323-10	43233	Inspector, Bus Services
4323-11	43233	Control Clerk, Road Transport Services



MASCO 2013	MASCO 2008	JOB TITLE
4323-12	43233	Dispatch Clerk, Bus
4323-13	43233	Dispatch Clerk, Road Transport
4323-14	43233	Dispatch Clerk, Truck
4323-15	43234	Air Transport Operations Clerk
4323-16	43234	Clerk, Flight Operation
4323-17	43234	Dispatch Clerk, Air Transport
4323-18	43234	Clerk, Traffic
4323-19	43234	Control Clerk, Air Transport Service
4323-20	43234	Dispatch Clerk, Aircraft
4323-21	43235	Wharfinger
4323-22	43235	Clerk, Shipping and Purchasing
4323-23	43235	Officer, Ferry
4323-24	43235	Float Master
4323-25	43235	Control Clerk, Sea Transport Services
4323-26	43235	Dispatch Clerk, Boat
4323-27	43235	Dispatch Clerk, Gas Pipeline
4323-28	43235	Dispatch Clerk, Oil Pipeline
4323-29	43237	Coordinator, Shipping
4323-30	New	Dispatch Clerk, (Transport Service)
<b>4411</b>		<b>LIBRARY CLERKS</b>
4411-01	44116	Administrative Assistant (Library), Grade 21
4411-02	MIDA	Executive Assistant (Library), Grade 3
4411-03	44111	Library Clerk
4411-04	44113	Library File Compiler
4411-05	44115	Library Administrative Assistant
<b>4412</b>		<b>MAIL CARRIERS AND SORTING CLERKS</b>
4412-01	44121	Postman/woman
4412-02	44122	Clerk, Mail Dispatch
4412-03	44122	Assistant, Mail Dispatch
4412-04	44123	Process Server
4412-05	44123	Summons Server
4412-06	44124	Clerk, Mail Sorting
4412-07	44124	Control Clerk, Mail Depot
4412-08	44124	Control Clerk, Mail
4412-09	44124	Control Clerk, Postal Service
4412-10	44125	Clerk, Mail
4412-11	44125	Clerk, Address List
4412-12	44125	Clerk, Mailing List
<b>4413</b>		<b>CODING, PROOF-READING AND RELATED CLERKS</b>
4413-01	44131	Proof-Reader Clerk
4413-02	44132	Coding Clerk, Data Processing
4413-03	44132	Coding Clerk, Statistics
4413-04	41101	Publication Clerk
4413-05	New	Coding Clerk
<b>4414</b>		<b>SCRIBES AND RELATED WORKERS</b>
4414-01	44141	Petition Writer
4414-02	44142	Public Writer
4414-03	44143	Scribe
<b>4415</b>		<b>FILING AND COPYING CLERKS</b>
4415-01	44151	Clerk, Filing
4415-02	44151	Clerk, Directory Compilation
4415-03	44151	Compiler, Directory
4415-04	44152	Clerk, Photocopying
4415-05	44153	Document Copying Clerk
4415-06	44154	Document Control Clerk

MASCO 2013	MASCO 2008	JOB TITLE
4415-07	44155	Controller, Document
4415-08	44156	Coordinator, Document
4415-09	44157	Clerk, Document
<b>4416</b>		<b>PERSONNEL CLERKS</b>
4416-01	44161	Clerk, Employment
4416-02	44167	Clerk, General Affairs
4416-03	44167	Clerk, Personnel
4416-04	44167	Clerk, Personnel Records
4416-05	44167	Clerk, Human Resource
4416-06	44167	Personnel Assistant
4416-07	44168	Clerk, Addressing Machine
4416-08	44168	Clerk, Registration
4416-09	44168	Clerk, Classification
4416-10	44168	Clerk, Probate
4416-11	New	Human Resource Assistant
<b>4419</b>		<b>CLERICAL SUPPORT WORKERS NOT ELSEWHERE CLASSIFIED</b>
4419-01	43125	Economic Affairs Assistant, Grade E17
4419-02	23806	Training Assistant, Grade E17
4419-03	74218	Wireless Operator, Grade N17
4419-04	51516	Wardrobe Supervisor, Grade N17
4419-05	MIDA	Executive Assistant (Economics), Grade 3
4419-06	43225	Clerk, Sales
4419-07	43225	Clerk, Marketing
4419-08	43225	Clerk, Sales and Marketing
4419-09	43225	Clerk, Local Sales
4419-10	43225	Clerk, Sales Counter
4419-11	43225	Clerk, Sales Administration
4419-12	43225	Clerk, Production Sales Administration
4419-13	43225	Clerk, Telesales
4419-14	43225	Clerk, Sales Order
4419-15	43225	Coordinator, Sales
4419-16	51514	Wardrobe Assistant
4419-17	44199	Clipper, Press
4419-18	44199	Clerk, Advertising
<b>5</b>	<b>5</b>	<b>SERVICE AND SALES WORKERS</b>
<b>5111</b>		<b>TRAVEL ATTENDANTS AND TRAVEL STEWARDS</b>
5111-01	51111	Ship Cabin Attendant
5111-02	51112	Steward/Stewardess Coordinator
5111-03	51112	Steward/Stewardess Supervisor
5111-04	51113	Floor Steward/Stewardess
5111-05	51114	Flight Attendant
5111-06	51115	Steward/Stewardess
5111-07	51117	Airport Attendant
5111-08	New	Cabin Crew
5111-09	New	Flight Crew
5111-10	New	Ship Steward/Stewardess
<b>5112</b>		<b>TRANSPORT CONDUCTORS</b>
5112-01	51121	Bus Conductor
5112-02	51122	Ticket Inspector
5112-03	51121	Ferry/ Boat Conductor
5112-04	51121	Train Conductor
5112-05	51121	Hovercraft Conductor
5112-06	51121	Cable Car Conductor
5112-07	51123	Passenger Guard, Train
5112-08	51123	Railway Guard

MASCO 2013	MASCO 2008	JOB TITLE
5112-09	New	Transport Conductor
5112-10	New	Tram Conductor
<b>5113</b>		<b>TRAVEL GUIDES</b>
5113-01	51131	Tourist Guide
5113-02	51131	Travel Guide
5113-03	51132	Art Gallery Guide
5113-04	51132	Museum Guide
5113-05	51133	Factory Tour Guide
5113-06	51134	Travel Sightseeing Guide
5113-07	51134	Travel Game Park Guide
5113-08	New	Tour Escort
<b>5121</b>		<b>COOKS</b>
5121-01	51205	Food Preparation Assistant, Grade N17
5121-02	51205	Cook, Grade N17
5121-03	51201	Chief Cook
5121-04	51202	Cook
5121-05	51202	Cook, Hotel and Catering Services
5121-06	51203	Cook, Private Service
5121-07	51204	Cook, Food Canning & Preserving
5121-08	51201	Helper, Barbecue
5121-09	51201	Commis
5121-10	51201	Cook's Assistant
<b>5131</b>		<b>WAITERS</b>
5131-01	51311	Waiter
5131-02	New	Waiter
5131-03	51314	Waiter, Banquet
5131-04	51314	Food and Beverage Supervisor
5131-05	51314	Outlet Supervisor
5131-06	51314	Restaurant Supervisor
5131-07	51315	Food and Beverage Worker, Banquet
5131-08	51316	Food and Beverage Worker, Room Service
5131-09	51317	Food and Beverage Worker
<b>5132</b>		<b>BARTENDERS</b>
5132-01	51321	Bartender
5132-02	51322	Bartender Assistant
5132-03	51323	Food and Beverage Bartender
5132-04	New	Barista
<b>5141</b>		<b>HAIRDRESSERS</b>
5141-01	51411	Coiffeur
5141-02	51411	Hairdresser
5141-03	51412	Barber
5141-04	51413	Hair Stylist
5141-05	New	Hair Care Specialist
<b>5142</b>		<b>BEAUTICIANS AND RELATED WORKERS</b>
5142-01	51426	Beautician, Grade B11
5142-02	51421	Beautician
5142-03	51422	Make-Up Artist
5142-04	51423	Manicurist
5142-05	51424	Pedicurist
5142-06	51425	Aesthetician
5142-07	51427	Spa Masseur
5142-08	51428	Beauty and Health Therapist
5142-09	51429	Spa Therapist
5142-10	New	Slimming Consultant

MASCO 2013	MASCO 2008	JOB TITLE
<b>5151</b>		<b>CLEANING AND HOUSEKEEPING SUPERVISORS IN OFFICES, HOTELS AND OTHER ESTABLISHMENTS</b>
5151-01	51511	Hotel and Lodging Banquet Supervisor
5151-02	51511	Hotel and Lodging Floor Supervisor
5151-03	51512	Housekeeping Supervisor
5151-04	51512	Laundry Supervisor
5151-05	51513	Housekeeper Executive
5151-06	51515	Housekeeper (Hotel)
5151-07	51517	Matron (Housekeeping)
5151-08	51524	Housekeeping Supervisor, Public Area
5151-09	New	Housekeeping and Catering Service Supervisor
5151-10	51521	Floor Steward, Hotel and Lodging
5151-11	91122	Bell Captain, Hotel and Lodging
5151-12	New	Room Steward
<b>5152</b>		<b>DOMESTIC HOUSEKEEPERS</b>
5152-01	New	Housekeeper, Private
5152-02	New	Butler
5152-03	New	Domestic Housekeeper
5152-04	51525	House Steward, Private
5152-05	51524	Housekeeping Worker, Private Room
5152-06	51524	Housekeeping Worker, Private
<b>5153</b>		<b>BUILDING CARETAKERS</b>
5153-01	51532	Hostel Supervisor, Grade N17
5153-02	51531	Building Caretaker
5153-03	51522	Warden, Hostel
5153-04	51522	Warden, Dormitory
5153-05	51522	Warden, Camp
5153-06	51534	Sexton
5153-07	51534	Mosque Caretaker
5153-08	51513	Floor Captain
5153-09	New	Janitor
5153-10	51522	Camp Supervisor
<b>5161</b>		<b>ASTROLOGERS, FORTUNE-TELLERS AND RELATED WORKERS</b>
5161-01	51611	Astrologer
5161-02	51612	Palmist
5161-03	51613	Fortune-Teller
5161-04	51614	Numerologist
<b>5162</b>		<b>COMPANIONS AND VALETS</b>
5162-01	51623	Lady-in-Waiting
5162-02	51621	Companion
5162-03	51621	Companion, Social
5162-04	51622	Valet
<b>5163</b>		<b>UNDERTAKERS AND EMBALMERS</b>
5163-01	51631	Attendant, Mortuary
5163-02	51631	Undertaker
5163-03	51632	Embalmer
5163-04	New	Moirologist
5163-05	51633	Attendant, Crematorium
5163-06	93133	Grave Digger
<b>5164</b>		<b>PET GROOMERS AND ANIMAL CARE WORKERS</b>
5164-01	New	Specialised General Worker (Mahout), Grade R3
5164-02	51642	Animal Caretaker
5164-03	51643	Keeper in Zoo, Bird and Aquatic Parks
5164-04	New	Zookeeper
5164-05	51641	Veterinary Aide

MASCO 2013	MASCO 2008	JOB TITLE
<b>5165</b>		<b>DRIVING INSTRUCTORS</b>
5165-01	51651	Driving Instructor
<b>5169</b>		<b>PERSONAL SERVICES WORKERS NOT ELSEWHERE CLASSIFIED</b>
5169-01	New	Social Escort
5169-02	New	Club Host
5169-03	New	Dance Partner
5169-04	New	Guest Relations Officer
<b>5211</b>		<b>STALL AND MARKET SALESPERSONS</b>
5211-01	52111	Street Stall Salesperson
5211-02	52112	Market Salesperson
5211-03	52113	Kiosk Salesperson
5211-04	52114	Counter Sales Promoter
5211-05	52115	Florist
5211-06	52116	Butcher
5211-07	52116	Fishmonger
5211-08	52117	Wholesale and Retail Salesperson
5211-09	New	Market Vendor
5211-10	New	Market Stallholder
5211-11	52431	Salesperson, Marketing
<b>5212</b>		<b>STREET FOOD SALESPERSONS</b>
5212-01	52121	Hawker (Food)
5212-02	52122	Street Food Vendor
<b>5221</b>		<b>SHOPKEEPERS</b>
5221-01	52211	Shopkeeper
5221-02	New	Grocer
5221-03	New	Newsagent
<b>5222</b>		<b>SHOP SUPERVISORS</b>
5222-01	New	Shop Supervisor
5222-02	52221	Sales Supervisor
5222-03	New	Supermarket Supervisor
5222-04	New	Checkout Supervisor
<b>5223</b>		<b>SHOP SALES ASSISTANTS</b>
5223-01	52231	Sales Assistant
5223-02	52231	Shop Assistant
5223-03	New	Salesperson (Retail Establishment)
5223-04	New	Salesperson (Wholesale Establishment)
<b>5231</b>		<b>CASHIERS AND TICKET CLERKS</b>
5231-01	52301	Cashier
5231-02	52301	Cashier, Office of Supervisor
5231-03	52301	Cashier, Assistant
5231-04	52301	Cashier, Parking
5231-05	52302	Cashier, Box Office
5231-06	52303	Cashier, Store
5231-07	52303	Cashier, Petrol Station
5231-08	52304	Cashier, Theatre
5231-09	52305	Cashier, Cafeteria
5231-10	52305	Cashier, Food and Beverage
5231-11	52305	Cashier, Restaurant
5231-12	52306	Cashier, Reservation Office
5231-13	52306	Cashier, Race Track
5231-14	52307	Clerk, Ticket Issuing (Except Travel)
5231-15	52308	Cashier, Check-Out
5231-16	52309	Cashier, Cash Desk

MASCO 2013	MASCO 2008	JOB TITLE
5231-17	52309	Cashier, Exchange Booth
5231-18	52309	Cashier, Currency Exchange
5231-19	52309	Clerk, Toll Collection
5231-20	New	Toll Teller
5231-21	New	Cashier, Park
<b>5241</b>		<b>FASHION AND OTHER MODELS</b>
5241-01	52411	Fashion Model
5241-02	52412	Advertising Model
5241-03	52413	Artist's Model
<b>5242</b>		<b>SALES DEMONSTRATORS</b>
5242-01	52421	Demonstrator
5242-02	52422	Sales Promoter
5242-03	52423	Sales Merchandiser
<b>5243</b>		<b>DOOR-TO-DOOR SALESPERSONS</b>
5243-01	52433	Direct Selling Salesperson
5243-02	New	Door-to-Door Salesperson
5243-03	New	Door-to-Door Sales Representative
<b>5244</b>		<b>CONTACT CENTRE SALESPERSONS</b>
5244-01	52441	Customer Contact Centre Salesperson
5244-02	New	Contact Centre Personnel
5244-03	New	Outbound Contact Centre Consultant
5244-04	New	Telesales Agent
5244-05	New	Telesales Executive
5244-06	New	Telesales Representative
5244-07	42224	Telemarketer
5244-08	New	Call Centre Salesperson
5244-09	New	Internet Salesperson
<b>5245</b>		<b>SERVICE STATION AND PUMP ATTENDANTS</b>
5245-01	52451	Petrol Pump Attendant
5245-02	52452	Service Station Attendant
<b>5246</b>		<b>FOOD COUNTER ATTENDANTS</b>
5246-01	52461	Food Counter Attendant
5246-02	New	Cafeteria Counter Attendant
<b>5249</b>		<b>SALES WORKERS NOT ELSEWHERE CLASSIFIED</b>
5249-01	New	Rental Salesperson
<b>5311</b>		<b>CHILD CARE WORKERS</b>
5311-01	53111	Child Care Worker
5311-02	53115	Amah
5311-03	53115	Nanny
5311-04	53115	Babysitter
<b>5312</b>		<b>TEACHER'S AIDES</b>
5312-01	53122	Pupil Management Assistant, Grade nN17
5312-02	53121	Teacher's Aide
5312-03	New	Pre-school Assistant
5312-04	53112	Kindergarten Assistant
5312-05	53113	Kindergarten Attendant
5312-06	53114	Kindergarten Worker
<b>5321</b>		<b>HEALTH CARE ASSISTANTS</b>
5321-01	JPA	Health Assistant, Grade U3
5321-02	53215	Public Health Assistant, Grade U11



MASCO 2013	MASCO 2008	JOB TITLE
5321-03	53211	Nursing Assistant
5321-04	53211	Nursing Medical Assistant
5321-05	53211	Home Care Assistant
5321-06	53211	Dental Aide
5321-07	53214	Hospital Aide
5321-08	New	Birth Assistant (Clinic or Hospital)
5321-09	New	Nursing Aide (Clinic Or Hospital)
5321-10	New	Patient Care Assistant
5321-11	New	Psychiatric Aide
<b>5322</b>		<b>HOME-BASED PERSONAL CARE WORKERS</b>
5322-01	New	Care Aide (Home)
5322-02	New	Birth Assistant (Home)
5322-03	New	Nursing Aide (Home)
5322-04	New	Personal Care Provider
<b>5329</b>		<b>PERSONAL CARE WORKERS IN HEALTH SERVICES NOT ELSEWHERE CLASSIFIED</b>
5329-01	New	First-Aid Attendant
5329-02	New	Medical Imaging Assistant
5329-03	New	Phlebotomist
5329-04	New	Sterilisation Aide
<b>5411</b>		<b>FIRE FIGHTERS</b>
5411-01	54113	Fire Officer, Grade KB17
5411-02	54112	Fire Fighter
5411-03	54114	Fire Prevention Officer
5411-04	New	Forest Fire Fighter
<b>5412</b>		<b>POLICE OFFICERS</b>
5412-01	54126	Low-Ranking Police Officer and Auxiliary Constable, Grade YT1
5412-02	54127	Low-Ranking Police Officer and Aboriginal Constable, Grade YP1
5412-03	54123	Police Volunteer
5412-04	54123	Police Patrol Officer
<b>5413</b>		<b>PRISON GUARDS</b>
5413-01	54133	Prison Officer, Grade KX17
5413-02	54131	Prison Guard
5413-03	54132	Prison Warden
<b>5414</b>		<b>SECURITY GUARDS</b>
5414-01	54142	Security Assistant, Grade KP17
5414-02	54144	Security Guard, Grade KP11
5414-03	54148	Administrative Assistant (Security), Grade 21
5414-04	96293	General Assistant (Security Guard), Grade 1
5414-05	MIDA	General Assistant (Security), Grade 1
5414-06	54141	Guard, Gambling Activities
5414-07	54196	Bodyguard
5414-08	54141	Guard, Industrial Warehouse Department
5414-09	54141	Guard, Private Security
5414-10	54145	Guard
5414-11	54145	Security Guard
5414-12	54146	Office Guard
5414-13	54147	Watchman
5414-14	New	Safety Supervisor
5414-15	New	Security Supervisor
5414-16	New	Museum Guard
5414-17	New	Security Patrolman
5414-18	New	Doorkeeper

MASCO 2013	MASCO 2008	JOB TITLE
<b>5415</b>		<b>IMMIGRATION/ CUSTOMS OFFICERS AND ASSISTANTS</b>
5415-01	54151	Immigration Officer, Grade KP17
5415-02	54152	Customs Superintendent Assistant, Grade W17
<b>5419</b>		<b>PROTECTIVE SERVICES WORKERS NOT ELSEWHERE CLASSIFIED</b>
5419-01	54191	Lifeguard, Grade N1
5419-02	JPA	Maritime Enforcement Officers of Other Ranks, Grade X1
5419-03	54191	Game Warden
5419-04	54192	Park Warden, Animal Recreation
5419-05	54192	Wildlife Warden
5419-06	54196	Industrial Investigator
5419-07	54196	Recreation Supervisor
5419-08	54196	Swimming Pool Attendant
5419-09	54196	Lifeguard
5419-10	54196	Rescue Diver
5419-11	54196	Coastguard
5419-12	New	Traffic Warden
5419-13	New	Highway Patrol
5419-14	54123	Traffic Controller
5419-15	New	Animal Control Officer
5419-16	New	Beach Patrolman/woman
5419-17	New	Crossing Guard
<b>6</b>		<b>SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS</b>
<b>6111</b>		<b>FIELD CROP GROWERS</b>
6111-01	New	Grower, Field Crop
6111-02	61116	Grower, Rubber
6111-03	61117	Grower, Coconut
6111-04	61117	Grower, Oil Palm
6111-05	61111	Farmer, Papaya
6111-06	61111	Farmer, Banana
6111-07	61111	Grower, Abaca
6111-08	61111	Grower, Dragon Fruit
6111-09	61111	Grower, Pineapple
6111-10	61112	Grower, Intercropping
6111-11	61114	Grower, Paddy
6111-12	31425	Conductor, Field and Factory Rubber Plantation
6111-13	31425	Conductor, Field and Factory Oil Palm Plantation
6111-14	31425	Quality Inspector, Plantation
6111-15	31425	Mandore, Plantation
6111-16	31425	Checker, Plantation
6111-17	31425	Grader, Oil Palm
6111-18	31425	Supervisor, Plantation
6111-19	New	Skilled Farm Worker (Field Crops)
6111-20	New	Grower, Tobacco
<b>6112</b>		<b>SHRUB CROP GROWERS</b>
6112-01	61121	Grower, Shrub Trees
6112-02	61122	Grower, Coco
6112-03	61122	Grower, Tea
6112-04	61123	Grower, Pomegranate
6112-05	61124	Grower, Coffee
6112-06	61125	Grower, Grape
6112-07	61125	Grower, Cluster Fruit
<b>6113</b>		<b>GARDENERS, HORTICULTURAL AND NURSERY GROWERS</b>
6113-01	92141	Gardener
6113-02	61131	Flower Grower
6113-03	61131	Horticulturist

MASCO 2013	MASCO 2008	JOB TITLE
6113-04	61131	Hydroponics Grower
6113-05	61132	Mushroom Cultivator
6113-06	61133	Bonsai Grower
6113-07	New	Landscape Gardener
<b>6114</b>		<b>MIXED CROP GROWERS</b>
6114-01	61141	Mixed Crop Grower
6114-02	New	Mixed Crop Farmer
6114-03	New	Skilled Farm Worker (Mixed Crops)
<b>6115</b>		<b>VEGETABLE GROWERS</b>
6115-01	61151	Vegetable Grower
6115-02	61152	Lentil Grower
6115-03	61153	Black Pepper Farmer
6115-04	New	Chilli Farmer
<b>6121</b>		<b>LIVESTOCK AND DAIRY PRODUCERS</b>
6121-01	61211	Breeder, Livestock
6121-02	61211	Breeder, Dairy
6121-03	61212	Skilled Farm Worker, Mixed Animal Husbandry
6121-04	61213	Producer, Dairy
6121-05	61214	Farmer, Livestock
6121-06	New	Farmer
6121-07	New	Farmer, Pig
6121-08	92121	Shepherd
6121-09	New	Producer, Livestock
6121-10	New	Breeder, Horse
6121-11	61299	Milker
<b>6122</b>		<b>POULTRY PRODUCERS</b>
6122-01	61221	Farmer, Goose
6122-02	61221	Farmer, Chicken
6122-03	61221	Farmer, Bird
6122-04	61221	Farmer, Duck
6122-05	New	Poultry Breeder
6122-06	New	Farmer, Poultry
6122-07	New	Ostrich Farmer
<b>6123</b>		<b>APIARISTS AND SERICULTURISTS</b>
6123-01	New	Apiarist
6123-02	New	Sericulturist
6123-03	61291	Farmer, Leech
6123-04	61292	Farmer, Worm
6123-05	61293	Farmer, Silkworm
6123-06	61294	Farmer, Honey Bee
6123-07	61294	Worker, Bee Keeping
6123-08	61297	Worker, Sericulture
6123-09	61299	Hatchery Worker
6123-10	New	Farmer, Insect
<b>6129</b>		<b>ANIMAL PRODUCERS AND RELATED WORKERS NOT ELSEWHERE CLASSIFIED</b>
6129-01	61295	Inseminator, Poultry
6129-02	61296	Vaccinator
6129-03	61297	Worker, Incubator
6129-04	New	Fur Farmer (Non-Domesticated Animals)
6129-05	New	Breeder, Fighting Cock
6129-06	New	Farmer, Snake
6129-07	61234	Farmer, Crocodile

MASCO 2013	MASCO 2008	JOB TITLE
<b>6131</b>		<b>MIXED CROP AND ANIMAL PRODUCERS</b>
6131-01	61301	Mixed Product Farmer (Crops and Husbandry)
6131-02	New	Farmer (Mixed Farming)
6131-03	New	Skilled Farm Worker (Mixed Farming)
<b>6211</b>		<b>SKILLED FORESTRY AND RELATED WORKERS</b>
6211-01	62115	Forest Guard, Grade G11
6211-02	54199	Junior Wildlife Assistant, Grade G11
6211-03	62111	Logger
6211-04	New	Tree Feller
6211-05	62111	Chaser
6211-06	62111	High Climber, Logging
6211-07	62111	Logger, Underwater
6211-08	62111	Marker, Log
6211-09	62111	Log Feller
6211-10	62111	Grader, Log
6211-11	62111	Scaler, Log
6211-12	62113	Signalman, Log
6211-13	62113	Operator, Yarder
6211-14	62113	Operator, Log-Grapple
6211-15	62113	Skilled Worker, Forestry
6211-16	62113	Maker, Log-Raft
6211-17	62113	Checker, Log
6211-18	62113	Forester
6211-19	62113	Chokerman, Logging
6211-20	62113	Peeler, Log
6211-21	62113	Supervisor, Log
6211-22	New	Charcoal Burner
6211-23	New	Logging Climber
<b>6221</b>		<b>FISHERY AND AQUACULTURE PRODUCERS</b>
6221-01	New	Farmer, Fishery Livestock
6221-02	61232	Farmer, Fishery
6221-03	62211	Pearl Culturist
6221-04	New	Skilled Fish Farm Worker
6221-05	New	Algae Cultivator
6221-06	New	Skilled Seafood Farm Worker
6221-07	61231	Farmer, Ornamental Fish
6221-08	61232	Farmer, Shellfish
6221-09	61233	Farmer, Sea Cucumber
6221-10	New	Farmer, Turtle
6221-11	61235	Producer, Marine Product
6221-12	New	Farmer, Aquaculture
6221-13	New	Seafood Farmer
6221-14	New	Oyster Farmer
6221-15	New	Pearl Cultivator
6221-16	New	Producer, Crackers
6221-17	New	Producer, Otak-Otak
6221-18	New	Producer, Fishball
<b>6222</b>		<b>SKILLED INLAND AND COASTAL WATERS FISHERY WORKERS</b>
6222-01	62221	Fishery Worker, Kelong
6222-02	62221	Fishery Worker, Inland
6222-03	62222	Fishery Worker, Coastal
6222-04	62223	Diver, Pearl
6222-05	62223	Diver, Oyster
6222-06	62225	Crewman
6222-07	62225	Anchorman
6222-08	62226	Commercial Fisherman
6222-09	New	Fishery Worker

MASCO 2013	MASCO 2008	JOB TITLE
6222-10	New	Fisherman (Coastal Waters)
6222-11	New	Fisherman (Inland Waters)
<b>6223</b>		<b>SKILLED DEEP-SEA FISHERY WORKERS</b>
6223-01	62231	Fishery Worker, Deep-Sea
6223-02	New	Fisherman (Deep Sea)
6223-03	New	Trawler Crewman
<b>6224</b>		<b>HUNTERS AND TRAPPERS</b>
6224-01	62241	Hunter
6224-02	62242	Trapper
6224-03	New	Fur Trapper
6224-04	New	Whale Hunter
<b>6311</b>		<b>SUBSISTENCE CROP FARMERS</b>
6311-01	63101	Subsistence Crop Grower
<b>6321</b>		<b>SUBSISTENCE LIVESTOCK FARMERS</b>
6321-01	63201	Subsistence Livestock Farmer
<b>6331</b>		<b>SUBSISTENCE MIXED CROP AND LIVESTOCK FARMERS</b>
6331-01	63301	Subsistence Mixed Crop and Livestock Farmer
<b>6341</b>		<b>SUBSISTENCE FISHERMEN, HUNTERS, TRAPPERS AND GATHERERS</b>
6341-01	63401	Collector, Petai
6341-02	63402	Collector, Resin
6341-03	63404	Gatherer, Shellfish
6341-04	63405	Collector, Bird's Nest
6341-05	63406	Gatherer, Seaweed
6341-06	63407	Gatherer, Wild Fruit, Herbs and Vegetables
6341-07	New	Subsistence Fisherman
6341-08	New	Subsistence Collector
6341-09	New	Collector, Ornamental Stone
6341-10	New	Gatherer, Coconut Sap
6341-11	New	Gatherer, Honey
<b>7</b>		<b>CRAFT AND RELATED TRADES WORKERS</b>
<b>7111</b>		<b>HOUSE BUILDERS</b>
7111-01	71112	House Builder
<b>7112</b>		<b>BRICKLAYERS AND RELATED WORKERS</b>
7112-01	71121	Bricklayer
7112-02	71123	Stonemason
7112-03	71124	Firebrick Layer
7112-04	71125	Paviour
7112-05	71135	Stonework Layout Man
7112-06	New	Blocklayer
7112-07	New	Refractory bricklayer
7112-08	New	Chimney Builder
<b>7113</b>		<b>STONEMASONS, STONE CUTTERS, SPLITTERS AND CARVERS</b>
7113-01	New	Tradesman K3 – Mason, Grade R9
7113-02	71131	Splitter, Stone
7113-03	71132	Stone Lathe Worker
7113-04	71132	Cutter, Stone
7113-05	71132	Sawyer, Stone
7113-06	71133	Grader, Stone
7113-07	71134	Carver, Stone
7113-08	71136	Grinder, Stone

MASCO 2013	MASCO 2008	JOB TITLE
7113-09	71137	Carver-Setter, Monument
7113-10	71138	Polisher, Stone
7113-11	71139	Cutter, Granite
7113-12	71139	Dresser, Stone
7113-13	71122	Stonemason
7113-14	71139	Splitter, Sand
7113-15	New	Finisher, Stone
<b>7114</b>		<b>CONCRETE PLACERS, CONCRETE FINISHERS AND RELATED WORKERS</b>
7114-01	71141	Reinforced Concrete Worker
7114-02	71142	Shutterer, Concrete Moulding
7114-03	71142	Shutterer, Concrete
7114-04	71143	Worker, Iron Reinforcing
7114-05	71143	Steel Bender
7114-06	71144	Finisher, Cement
7114-07	71145	Cementer
7114-08	71145	Cementer, Petroleum and Gas Wells
7114-09	71146	Steel Fixer
<b>7115</b>		<b>CARPENTERS AND JOINERS</b>
7115-01	JPA	Tradesman K3 – Carpenter, Grade R9
7115-02	JPA	Tradesman K3 – Joiner, Grade R9
7115-03	71151	Carpenter
7115-04	71152	Carpenter, Construction
7115-05	71153	Joiner, Construction
7115-06	71154	Joiner, Ship
7115-07	71155	Boatbuilder, Wood
7115-08	71155	Shipwright, Wood
7115-09	71155	Carpenter, Ship
7115-10	71156	Joiner, Aircraft
7115-11	71157	Carpenter, Stage and Studio
7115-12	71158	Carpenter, Table
7115-13	71159	Wood Engraver
7115-14	New	Joiner
7115-15	New	Framer, Wood
<b>7119</b>		<b>BUILDING FRAME AND RELATED TRADES WORKERS NOT ELSEWHERE CLASSIFIED</b>
7119-01	71191	Worker, Building Maintenance
7119-02	71192	Pipe Layer
7119-03	71192	Drain Layer
7119-04	71193	Scaffolder
7119-05	71194	Skilled Demolition Worker
7119-06	71195	Erector, Billboard
7119-07	71196	Steeplejack
7119-08	New	Building Frame Worker
7119-09	New	Erector
<b>7121</b>		<b>ROOFERS</b>
7121-01	New	Roofer
7121-02	71211	Roofer, Thatch
7121-03	71211	Roofer, Nipa
7121-04	71213	Roofer, Asphalt
7121-05	71213	Roofer, Asbestos
7121-06	71215	Roofer, Slate
7121-07	71215	Roofer, Zinc
7121-08	71217	Installer, Awning
7121-09	71219	Installer, Ceiling
7121-10	71212	Roofer, Odd Job



MASCO 2013	MASCO 2008	JOB TITLE
<b>7122</b>		<b>FLOOR LAYERS AND TILE SETTERS</b>
7122-01	71221	Installer, Tile
7122-02	71221	Tile Setter
7122-03	71222	Marble Setter
7122-04	71223	Parquetry Worker
7122-05	71224	Cutter-Setter, Mosaic
7122-06	71225	Tile Layer
7122-07	71226	Marble Cutter
7122-08	71227	Marble Polisher
<b>7123</b>		<b>PLASTERERS</b>
7123-01	71231	Plasterer
7123-02	71232	Plasterer, Stucco
7123-03	71233	Plasterer, Fibrous
7123-04	71234	Plasterer, Ornamental
7123-05	New	Plasterer, Solid
<b>7124</b>		<b>INSULATION WORKERS</b>
7124-01	71246	Insulation Worker
7124-02	71241	Insulation Worker, Building
7124-03	71242	Insulation Worker, Boiler
7124-04	71242	Insulation Worker, Pipe
7124-05	71243	Insulation Worker, Acoustical
7124-06	71244	Insulation Worker, Refrigeration Equipment
7124-07	71244	Insulation Worker, Air-Conditioning Equipment
7124-08	71245	Insulation Worker, Sound-Proofing
7124-09	New	Insulation Installer
<b>7125</b>		<b>GLAZIERS</b>
7125-01	New	Glazier
7125-02	71251	Glazier, Building
7125-03	71252	Glazier, Vehicle
7125-04	71253	Glazier, Leaded-Glass
7125-05	71254	Glazier, Patent Roofing
7125-06	71255	Glazier, Plate-Glass
7125-07	New	Glazier, Roofing
<b>7126</b>		<b>PLUMBERS AND PIPE FITTERS</b>
7126-01	71263	Tradesman K1, Grade R17
7126-02	71264	Tradesman K2, Grade R11
7126-03	71265	Tradesman K3, Grade R9
7126-04	71261	Plumber
7126-05	71262	Pipe Fitter
7126-06	71262	Pipe Tube Fitter, Aircraft
7126-07	71262	Pipe Fitter, Water Supply
7126-08	71262	Pipe Fitter, Sewerage
7126-09	71262	Pipe Fitter, Marine
7126-10	71262	Pipe Fitter, Ventilation
7126-11	71266	Well Digger
7126-12	New	Fitter
<b>7127</b>		<b>AIR CONDITIONING AND REFRIGERATION MECHANICS</b>
7127-01	New	Tradesman K2 - Refrigeration Mechanic, Grade R11
7127-02	71271	Refrigeration Equipment Mechanic
7127-03	71271	Air-Conditioning Equipment Mechanic
<b>7131</b>		<b>PAINTERS AND RELATED WORKERS</b>
7131-01	New	Tradesman K3 - Painter and Writer, Grade R9
7131-02	New	Painter
7131-03	73162	Painter, Glass

MASCO 2013	MASCO 2008	JOB TITLE
7131-04	73162	Painter, Ceramics
7131-05	71311	Painter, Building
7131-06	71312	Painter, Steel Structure
7131-07	71313	Wallpaper Hanger
7131-08	71323	Painter, Manufactured Articles
7131-09	71324	Painter, Metal
7131-10	71327	Signpainter
7131-11	71328	Painter, Ship Hull
<b>7132</b>		<b>SPRAY PAINTERS AND VARNISHERS</b>
7132-01	71329	Spray Painter
7132-02	71321	Spray Painter, Metal
7132-03	71322	Spray Painter, Vehicles
7132-04	New	Varnisher
7132-05	71325	Varnisher, Manufactured Articles
7132-06	71326	Varnisher, Metal
7132-07	New	Varnisher, Wood
7132-08	New	Varnisher, Rattan
<b>7133</b>		<b>BUILDING STRUCTURE CLEANERS</b>
7133-01	71331	Cleaner, Building Exteriors
7133-02	71332	Sandblaster (Building Exteriors)
7133-03	New	Chimney Sweeper
<b>7211</b>		<b>METAL MOULDERS AND COREMAKERS</b>
7211-01	New	Tradesman – Moulder, Grade R11
7211-02	72111	Mould Maker
7211-03	72111	Mould Repairer, Foundry
7211-04	72111	Flooring Moulder, Foundry
7211-05	72111	Moulder, Metal
7211-06	72111	Moulder, Pit Foundry
7211-07	New	Coremaker
7211-08	72112	Coremaker, Metal
7211-09	72112	Core Checker, Foundry
7211-10	New	Moulder
<b>7212</b>		<b>WELDERS AND FLAME CUTTERS</b>
7212-01	JPA	Tradesman K2 - Welder (Actelene), Grade R11
7212-02	JPA	Tradesman K2 - Welder (Electric), Grade R11
7212-03	72121	Welder
7212-04	72123	Flame Cutter
7212-05	72122	Foreman, Welder
7212-06	72125	Plumbum Burner
7212-07	72127	Gas Tungsten Arc Welder
7212-08	72128	Underwater Welder
7212-09	72134	Brazier
<b>7213</b>		<b>SHEET-METAL WORKERS</b>
7213-01	JPA	Tradesman K2 - Sheet-Metal Worker, Grade R11
7213-02	JPA	Tradesman – Boilermaker, Grade R11
7213-03	72131	Sheet-Metal Worker
7213-04	72132	Coppersmith
7213-05	72133	Boilermaker
7213-06	72133	Borer
7213-07	72135	Sheet-Metal Worker, Vehicle
7213-08	72135	Sheet Metal Worker, Ornamental
7213-09	72135	Sheet Metal Worker, Aircraft
7213-10	72135	Panel Beater, Vehicle
7213-11	72135	Panel Beater, Aircraft
7213-12	72136	Marker, Sheet-Metal

MASCO 2013	MASCO 2008	JOB TITLE
7213-13	New	Tinsmith
7213-14	72124	Solderer, Metal
7213-15	72126	Solderer
<b>7214</b>		<b>STRUCTURAL-METAL PREPARERS AND ERECTORS</b>
7214-01	72141	Structural Steel Worker
7214-02	72142	Erector, Constructional Steel
7214-03	72143	Ship Plater
7214-04	72144	Riveter
7214-05	72145	Marker, Structural Metal
7214-06	72146	Shipwright, Metal
7214-07	72147	Erector, Structural Metal
7214-08	72148	Preparer, Structural Metal
<b>7215</b>		<b>RIGGERS AND CABLE SPLICERS</b>
7215-01	New	Tradesman K2 - Cable Splicer, Grade R11
7215-02	New	Tradesman K3 - Erector (Electrical Equipment), Grade R9
7215-03	72159	Rigger
7215-04	72152	Rigger, Hoisting Equipment
7215-05	72151	Rigger, Construction Hoisting Equipment
7215-06	72153	Rigger, Logging
7215-07	72154	Rigger, Ship
7215-08	72155	Rigger, Petroleum and Gas Well Drilling
7215-09	72156	Splicer, Rope and Cable
7215-10	72157	Rigger, Aircraft
7215-11	72158	Rigger, Railway Cable
<b>7221</b>		<b>BLACKSMITHS, HAMMERSMITHS AND FORGING-PRESS WORKERS</b>
7221-01	New	Tradesman K2 – Blacksmith, Grade R11
7221-02	72211	Blacksmith
7221-03	72212	Hammersmith
7221-04	72213	Worker, Drop Hammer
7221-05	72214	Worker, Metal Forging
7221-06	72215	Toolsmith
<b>7222</b>		<b>TOOLMAKERS AND RELATED WORKERS</b>
7222-01	New	Tradesman K1 – Toolmaker, Grade R17
7222-02	New	Tradesman K3 – Loopmaker, Grade R9
7222-03	72221	Tool and Die Maker
7222-04	72222	Pattern-Maker, Metal Foundry
7222-05	72223	Jig Maker and Fixture
7222-06	72224	Marker, Metal
7222-07	72225	Keysmith
7222-08	72225	Locksmith
7222-09	72226	Gunsmith
<b>7223</b>		<b>METAL WORKING MACHINE TOOL SETTERS AND OPERATORS</b>
7223-01	72231	Metal Working Machine Adjuster
7223-02	72231	Metal Working Machine Operator
7223-03	72231	Metal Working Machine Setter
7223-04	New	Boring Machine Operator
7223-05	New	Machine Tool Setter
7223-06	New	Machine Tool Operator
7223-07	New	Machine Tool Setter-Operator
<b>7224</b>		<b>METAL POLISHERS, WHEEL GRINDERS AND TOOL SHARPENERS</b>
7224-01	72241	Metal Grinder
7224-02	72242	Cutting Instruments Sharpener
7224-03	72243	Machine Tool Sharpener
7224-04	72244	Saw Repairer

MASCO 2013	MASCO 2008	JOB TITLE
7224-05	72244	Saw Sharpener
7224-06	72244	Saw Servicer
7224-07	72245	Textile Card Grinder
7224-08	72246	Crankshaft Grinder
7224-09	72247	Metal Polisher
7224-10	72248	Metal Finisher
7224-11	72249	Thread Grinder
7224-12	New	Knife Sharpener
7224-13	New	Tool Grinder
<b>7231</b>		<b>MOTOR VEHICLE MECHANICS AND REPAIRERS</b>
7231-01	New	Tradesman K2 - Mechanic (Motor Vehicle), Grade R11
7231-02	JPA	Tradesman - Tool Mechanic, Grade R17
7231-03	New	Mechanic
7231-04	72311	Earth-Moving Equipment Mechanic
7231-05	72313	Motorcycle Mechanic
7231-06	72314	Motor Vehicle Mechanic
7231-07	72315	Workshop Mechanic
7231-08	72312	Garage Mechanic
7231-09	72317	Workshop Worker
7231-10	72318	Vehicle Foreman
7231-11	72318	Automotive Mechanic
7231-12	New	Vehicle Body Frame Maker
7231-13	New	Vehicle Body Panel Beater
7231-14	New	Sealant Installer
7231-15	91226	Car Detailer
7231-16	New	Automotive Brake System Service Mechanic
7231-17	New	Diesel Fitter (Road Transport)
7231-18	New	Engine Fitter (Motor Vehicle)
7231-19	New	Motor Vehicle Engine and Fuel System Mechanic
7231-20	New	Motor Vehicle Mechatronics Mechanic
7231-21	New	Motor Vehicle Repairer
7231-22	New	Small Engine Mechanic
<b>7232</b>		<b>AIRCRAFT ENGINE MECHANICS AND REPAIRERS</b>
7232-01	72321	Aircraft Engine Mechanic
7232-02	New	Aircraft Engine Fitter
7232-03	New	Aircraft Maintenance Mechanic
7232-04	New	Helicopter Mechanic
7232-05	New	Aircraft Maintenance Mechanic (Airframe)
7232-06	New	Aircraft Maintenance Mechanic (Engine)
7232-07	New	Aircraft Mechanic
7232-08	New	Airframe and Power Plant Mechanic
7232-09	New	Airframe Mechanic
7232-10	New	Jet Engine Mechanic
7232-11	New	Pneudraulic System Mechanic (Aircraft)
7232-12	New	Power Plant Mechanic (Aircraft)
7232-13	New	Rocket Engine Component Mechanic
<b>7233</b>		<b>AGRICULTURAL AND INDUSTRIAL MACHINERY MECHANICS AND REPAIRERS</b>
7233-01	72331	Machinery Mechanic
7233-02	72334	Mining Machinery Mechanic
7233-03	72339	Mechanic, Machine Tool
7233-04	72339	Mechanic, Industrial Machinery
7233-05	72339	Mechanic, Plant Maintenance
7233-06	72339	Oiler and Greaser
7233-07	New	Construction Machinery Mechanic
7233-08	New	Construction Machinery Repairer
7233-09	New	Farm Machinery Repairer
7233-10	New	Mining Machinery Fitter

MASCO 2013	MASCO 2008	JOB TITLE
7233-11	New	Mining Machinery Repairer
7233-12	New	Stationary Engine Fitter
7233-13	New	Stationary Engine Repairer
<b>7234</b>		<b>BICYCLE AND RELATED REPAIRERS</b>
7234-01	72341	Bicycle Repairer
7234-02	72342	Trishaw Repairer
7234-03	72343	Reel Repairer
7234-04	New	Bicycle Mechanic
7234-05	New	Perambulator Repairer
7234-06	New	Wheelchair Repairer
<b>7239</b>		<b>MACHINERY MECHANICS AND REPAIRERS NOT ELSEWHERE CLASSIFIED</b>
7239-01	72335	Marine Engine Mechanic
7239-02	72336	Ship Mechanic
7239-03	New	Train Engine Fitter
7239-04	New	Train Engine Repairer
<b>7311</b>		<b>PRECISION INSTRUMENT MAKERS AND REPAIRERS</b>
7311-01	73111	Precision Instrument Maker
7311-02	73111	Surgical Instrument Maker
7311-03	73111	Scientific Instrument Maker
7311-04	73111	Photographic Equipment Maker
7311-05	73112	Dental Prosthesis Maker
7311-06	73113	Orthopaedic Appliance Maker
7311-07	73114	Watch and Clock Maker
7311-08	73115	Optical Instrument Maker
7311-09	73116	Balancing Machine Maker
7311-10	73117	Barometer Maker
7311-11	73117	Meteorological Instrument Maker
7311-12	73118	Nautical Instrument Maker
7311-13	73112	Dental Prosthesis Repairer
7311-14	73113	Orthopaedic Appliance Repairer
7311-15	73114	Watch and Clock Repairer
7311-16	73115	Optical Instrument Repairer
7311-17	73116	Balancing Machine Repairer
<b>7312</b>		<b>MUSICAL INSTRUMENT MAKERS AND TUNERS</b>
7312-01	New	Musical Instrument Maker
7312-02	73121	Musical Instrument Tuner
7312-03	73122	Stringed Instrument Maker
7312-04	73122	Piano Maker
7312-05	73123	Drum Maker
7312-06	73124	Woodwind Instrument Maker
7312-07	73125	Metal-Wind Instrument Maker
<b>7313</b>		<b>JEWELLERY AND PRECIOUS METAL WORKERS</b>
7313-01	73131	Jeweller
7313-02	73131	Goldsmith
7313-03	73131	Silversmith
7313-04	73131	Pewtersmith
7313-05	73132	Jewellery Repairer
7313-06	73132	Gold Grader
7313-07	73133	Gem Slicer
7313-08	73134	Gem Setter
7313-09	73135	Precious Metal Roller
7313-10	73136	Jewellery Engraver
7313-11	73137	Gem Polisher
7313-12	73138	Jewellery Enameller
7313-13	New	Gold Rolling Mill Worker

MASCO 2013	MASCO 2008	JOB TITLE
<b>7314</b>		<b>POTTERS AND RELATED WORKERS</b>
7314-01	73141	Potter
7314-02	73142	Presser, Brick and Tile
7314-03	73143	Modeller, Pottery and Porcelain
7314-04	73144	Caster, Pottery and Porcelain
7314-05	73145	Turner, Pottery and Porcelain
7314-06	73145	Thrower, Pottery and Porcelain
7314-07	73145	Maker, Pottery and Porcelain Mould
7314-08	73145	Presser, Pottery and Porcelain
7314-09	73145	Jiggerer, Pottery and Porcelain
<b>7315</b>		<b>GLASS MAKERS, CUTTERS, GRINDERS AND FINISHERS</b>
7315-01	73152	Glass Blower, Grade N17
7315-02	73151	Glass Bender
7315-03	73151	Glass Blower
7315-04	73153	Glass Cutter
7315-05	73154	Optical Glass Cutter
7315-06	73155	Glass Polisher
7315-07	73156	Glass Grinder
7315-08	73157	Glass Lens Moulder
7315-09	73158	Glass Finisher
7315-10	73159	Glass Frame Fabricator
<b>7316</b>		<b>SIGN WRITERS, DECORATIVE PAINTERS, ENGRAVERS AND ETCHERS</b>
7316-01	73161	Etcher
7316-02	73161	Engraver
7316-03	73162	Sandblaster, Glass
7316-04	73162	Ceramic Dipper
7316-05	73162	Enameller, Glass
7316-06	73162	Silverer, Mirror
7316-07	73163	Electrotyper
7316-08	73163	Stereotyper
7316-09	73163	Router, Printing Plate
7316-10	New	Decorative Painter
7316-11	New	Sign Writer
<b>7317</b>		<b>HANDICRAFT WORKERS IN WOOD, BASKETRY AND RELATED MATERIALS</b>
7317-01	New	Craft Instructor, Grade E17
7317-02	73176	Mat Weaver
7317-03	73173	Handicraft Worker, Wooden Articles
7317-04	73174	Basket Maker
7317-05	73177	Broom Maker
7317-06	73172	Handicraft Worker, Reed Weaving
7317-07	73172	Handicraft Worker, Stone Articles
7317-08	73175	Brush Maker
7317-09	73178	Rattan Furniture Maker
7317-10	73178	Wicker Maker
7317-11	81514	Instructor, Spinner
<b>7318</b>		<b>HANDICRAFT WORKERS IN TEXTILE, LEATHER AND RELATED MATERIALS</b>
7318-01	73181	Weaver, Songket
7318-02	73182	Batik Painter
7318-03	75353	Maker, Leather Goods
7318-04	New	Handicraft Worker, Carpets
7318-05	New	Handicraft Worker, Leather
7318-06	New	Handicraft Worker, Textile
7318-07	New	Textile Fibre Comber
7318-08	New	Textile Fibre Rover
7318-09	New	Knitter
7318-10	New	Thread and Yarn Spinner



MASCO 2013	MASCO 2008	JOB TITLE
7318-11	New	Carpet Weaver
<b>7319</b>		<b>HANDICRAFT WORKERS NOT ELSEWHERE CLASSIFIED</b>
7319-01	73192	Badge Maker
7319-02	73193	Craftsman
7319-03	New	Metal Toy maker
<b>7321</b>		<b>PRE-PRESS WORKERS</b>
7321-01	81322	Offset Camera / Plate Maker Operator, Grade N17
7321-02	73211	Compositor
7321-03	73215	Braille Plate Maker
7321-04	73213	Typesetter
7321-05	73214	Desktop Publishing Equipment Worker
7321-06	73216	Press Line Worker
7321-07	73217	Profiling Line Worker
7321-08	New	Screen Maker
7321-09	New	Electronic Pre-Press Technician
7321-10	New	Plate Maker (Printing)
<b>7322</b>		<b>PRINTERS</b>
7322-01	73222	Printer
7322-02	73223	Textile Printer
7322-03	73224	Block Printer
7322-04	73225	Press Operator, Embossing
7322-05	73226	Tracer, Textile Design
7322-06	New	Digital Press Operator
7322-07	New	Feeder Operator (Printing)
7322-08	New	Flexographic Press Operator
7322-09	New	Gravure Press Operator
7322-10	New	Screen Printer
7322-11	New	Screen Printing Press Operator
7322-12	New	Web Press Operator
7322-13	81911	Printing Press Operator, Cylinder
7322-14	81912	Printing Press Operator, Offset
7322-15	81913	Printing Press Operator, Rotary
7322-16	81914	Printing Press Operator, Rotogravure
7322-17	81915	Printing Press Operator, Direct Lithographic
7322-18	81916	Printing Press Operator, Wallpaper
7322-19	81916	Printer, Wallpaper
7322-20	81919	Printing Operator
<b>7323</b>		<b>PRINT FINISHING AND BINDING WORKERS</b>
7323-01	73231	Bookbinder
7323-02	73232	Paper Cutter
7323-03	73233	Map and Chart Mounter
7323-04	73234	Book Embosser
7323-05	73235	Book Finisher
7323-06	New	Collator Operator
7323-07	New	Cutter Operator
7323-08	New	Foil Stamp Operator
7323-09	New	Folder Operator
7323-10	New	Multibinder Operator
7323-11	New	Perfect Binding Operator
7323-12	New	Saddle Stitch Operator
7323-13	81921	Machine Operator, Bookbinding
7323-14	81922	Machine Operator, Book Embossing
<b>7324</b>		<b>PRINTING AND PHOTO ENGRAVERS AND ETCHERS</b>
7324-01	73241	Engraver, Printing Metal Plate
7324-02	73242	Etcher, Printing Metal Plate

MASCO 2013	MASCO 2008	JOB TITLE
7324-03	73243	Engraver, Printing Lithographic Stone
7324-04	73244	Photo-Engraver
7324-05	73245	Worker, Darkroom
7324-06	73245	Developer, Colour and Black and White Films
7324-07	73246	Developer, X-Ray Film
<b>7411</b>		<b>BUILDING AND RELATED ELECTRICIANS</b>
7411-01	New	Tradesman K2 – Electrician, Grade R11
7411-02	74111	Electrician, Building
7411-03	74112	Electrician, Construction
7411-04	New	Electrician
<b>7412</b>		<b>ELECTRICAL MECHANICS AND FITTERS</b>
7412-01	74122	Chargeman, Grade R17
7412-02	74124	Chargeman, Grade 11
7412-03	New	Tradesman K3 - Maintenance R9
7412-04	74121	High Voltage Restriction Chargeman
7412-05	74121	Electrical Fitter
7412-06	74121	Electrical Fitter, Lift
7412-07	74123	Wireman
7412-08	74128	Electrical Repairman, Household Appliance
7412-09	74129	Foreman, Electrical
7412-10	74129	Foreman, Maintenance
7412-11	74129	Electrical Generator Operator
7412-12	74129	Electrical Office Machinery Fitter
7412-13	74129	Electrical Motor and Dynamo Fitter
7412-14	74129	Maintenance Fitter
7412-15	74124	Electrician, Ship
7412-16	74125	Electrician, Vehicle
7412-17	74126	Electrician, Aircraft
7412-18	74127	Electrician, Stage and Studio
7412-19	New	Lift Mechanic
7412-20	New	Electrical Mechanic
7412-21	New	Electrical Generator Fitter
<b>7413</b>		<b>ELECTRICAL LINE INSTALLERS AND REPAIRERS</b>
7413-01	New	Tradesman K3 - Electrical Wiring, Grade R9
7413-02	New	Tradesman K2 - Equipment Wiring (Electric), Grade R9
7413-03	New	Tradesman K3 - Wire Assembler (Telecommunications), Grade R9
7413-04	New	Tradesman K3 - Maintenance (Telecommunications), Grade R9
7413-05	New	Tradesman - Wire Assembler (Switchboard), Grade R9
7413-06	74131	Electrical Power Line Installer
7413-07	74132	Cable Line Worker
7413-08	74133	Electric Cable Joiner
7413-09	74134	Installer, Underground Cable
7413-10	74134	Installer, Underwater Cable
7413-11	74135	Rectifier System Worker
7413-12	74123	Electrician, Maintenance
<b>7421</b>		<b>ELECTRONICS MECHANICS AND SERVICERS</b>
7421-01	74211	Fitter, Electronics
7421-02	74211	Repairer, Electronics
7421-03	74216	Fitter, Electronic Industrial Equipment
7421-04	74217	Fitter, Electronic Meteorological Equipment
7421-05	New	Mechanic, Electronic Instrument
<b>7422</b>		<b>INFORMATION AND COMMUNICATIONS TECHNOLOGY INSTALLERS AND SERVICERS</b>
7422-01	74221	Telephone Wireman
7422-02	74221	Telephone and Telegraph Installer
7422-03	74222	Telephone and Telegraph Mechanic

MASCO 2013	MASCO 2008	JOB TITLE
7422-04	74222	Telephone and Telegraph Servicer
7422-05	74223	Information Technology Support Worker
7422-06	New	Data and Telecommunications Cabler
7422-07	New	Computer Equipment Fitter
7422-08	74212	Electronic Fitter, Radio Television Equipment
7422-09	74212	Electronic Fitter, Video Equipment
7422-10	74212	Electronic Fitter, Radar Equipment
7422-11	74215	Electronic Fitter, Computer
7422-12	74217	Operator, Network
7422-13	74217	Operator, Wireless Equipment
<b>7511</b>		<b>MEAT AND FISH PROCESSING WORKERS AND RELATED FOOD PREPARERS</b>
7511-01	75111	Slaughterer
7511-02	75112	Meat Cutter
7511-03	75116	Meat Slicer
7511-04	75112	Sausage Maker
7511-05	75114	Meat Curer
7511-06	75115	Fish Salter
7511-07	75115	Fish Pickler
7511-08	New	Fish Filleter
<b>7512</b>		<b>BAKERS, PASTRY AND PASTA COOKS AND CONFECTIONERY MAKERS</b>
7512-01	75121	Baker
7512-02	75123	Pastry Baker
7512-03	75124	Confectionary Maker
7512-04	75125	Chocolate Maker
7512-05	75126	Yeast Maker
7512-06	75127	Noodle Maker
7512-07	New	Pasta Maker
<b>7513</b>		<b>DAIRY- PRODUCT MAKERS</b>
7513-01	75131	Cheese Maker
7513-02	75132	Yogurt Maker
7513-03	New	Butter Maker
<b>7514</b>		<b>FRUIT, VEGETABLE AND RELATED PRESERVERS</b>
7514-01	75141	Fruit Preserver
7514-02	75142	Vegetable Preserver
7514-03	75143	Fruit Juice Maker
7514-04	75143	Syrup Maker
7514-05	75144	Vegetable Juice Maker
7514-06	75145	Cooking Oil Extracter
7514-07	New	Oil Expeller
7514-08	New	Vegetable /Fruit Pickler
<b>7515</b>		<b>FOOD AND BEVERAGE TASTERS AND GRADERS</b>
7515-01	New	Taster, Food
7515-02	New	Taster, Beverages
7515-03	New	Grader, Food
7515-04	75151	Taster and Grader, Tea
7515-05	75152	Taster and Grader, Coffee
7515-06	75153	Taster and Grader, Food
7515-07	75154	Taster and Grader, Liquor
7515-08	75155	Grader, Meat
7515-09	75156	Grader, Fruit
7515-10	75156	Grader, Vegetable
7515-11	75157	Taster, Juice
7515-12	75158	Grader, Oil
7515-13	75159	Grader , Paddy
7515-14	New	Examiner, Paddy

MASCO 2013	MASCO 2008	JOB TITLE
7515-15	New	Sorter, Paddy
7515-16	75159	Grader, Fish
7515-17	75159	Grader, Oil Palm
7515-18	75159	Grader, Egg
7515-19	75159	Grader, Bird's Nest
<b>7516</b>		<b>TOBACCO PREPARERS AND TOBACCO PRODUCT MAKERS</b>
7516-01	75161	Grader, Tobacco
7516-02	75162	Maker, Cigar
7516-03	75163	Maker, Cigarette
7516-04	75164	Quality Checker, Cigarette
7516-05	75165	Sorter, Tobacco
7516-06	75166	Curer, Tobacco
7516-07	75167	Tobacco Dryer
7516-08	75168	Tobacco Slicer
<b>7611</b>		<b>WOOD TREATERS</b>
7611-01	75211	Wood Impregnator
7611-02	75211	Wood Treater
7611-03	75212	Wood Seasoner
7611-04	75213	Grader, Wood
7611-05	75214	Grader, Veneer
<b>7612</b>		<b>CABINET-MAKERS AND RELATED WORKERS</b>
7612-01	New	Tradesman K2 - Furniture Maker, Grade R11
7612-02	75221	Maker, Cabinet
7612-03	75222	Builder, Bullock Cart
7612-04	75223	Maker, Furniture
7612-05	75224	Maker, Coffin
7612-06	75225	Maker, Clog
7612-07	75226	Maker, Wooden Model
7612-08	75227	Veneer Applier
7612-09	75228	Maker, Picture Frame
7612-10	75229	Turner, Wood (Hand)
7612-11	75229	Inlayer, Marquetry
7612-12	75229	Marker, Woodworking
7612-13	75229	Pattern-Maker, Wood Patterns
7612-14	75229	Toy Maker, Wood
7612-15	75229	Maker, Wooden Sports Equipment
7612-16	75229	Polisher, Wood
7612-17	75229	Lacquerer, Wood
7612-18	75229	Carver, Wood
7612-19	New	Wood Pattern-Maker
<b>7613</b>		<b>WOODWORKING - MACHINE TOOL SETTERS AND OPERATORS</b>
7613-01	75231	Adjuster, Wood Machine
7613-02	75232	Operator, Wood Machine
7613-03	75233	Setter, Wood Machine
7613-04	New	Carving Machine Operator (Wood)
7613-05	New	Furniture Production Machine Operator
7613-06	New	Precision Woodworking Sawyer
7613-07	New	Wood Product Machine Operator
7613-08	New	Woodworking Lathe Operator
7613-09	New	Woodworking Machine Setter
7613-10	New	Machine Set-Up Operator
<b>7621</b>		<b>TAILORS, DRESSMAKERS, FURRIERS AND HATTERS</b>
7621-01	New	Tradesman K3 – Tailor, Grade R9
7621-02	75311	Tailor
7621-03	75311	Dressmaker

MASCO 2013	MASCO 2008	JOB TITLE
7621-04	75312	Milliner
7621-05	New	Maker, Songkok
7621-06	75312	Maker, Hat / Cap
7621-07	75313	Maker, Wig
7621-08	75314	Operator, Sewing
7621-09	75314	Stitcher
7621-10	75315	Worker, Sewing
7621-11	75315	Carpet Mender
7621-12	75316	Embroiderer, Hand
7621-13	75317	Maker, Artificial Flower
7621-14	75318	Maker, Doll and Stuffed Toy
7621-15	75319	Repairer, Knitted Fabric
7621-16	75319	Lace Maker, Hand
7621-17	75319	Maker, Sack
7621-18	75319	Maker, Sail, Tent and Awning
7621-19	75319	Maker, Umbrella
7621-20	75319	Maker, Braided Gloves
7621-21	75319	Maker, Netted Gloves
7621-22	75319	Loom Threader, Hand
7621-23	75319	Weaver, Fabric Gloves
7621-24	75319	Crocheter
7621-25	75319	Knitter, Hand
7621-26	81521	Instructor, Weaving
7621-27	New	Maker, Scarf
7621-28	New	Maker, <i>Telekung</i>
7621-29	New	Furrier
<b>7622</b>		<b>GARMENT AND RELATED PATTERN-MAKERS AND CUTTERS</b>
7622-01	75321	Pattern-Maker, Garment
7622-02	75322	Pattern-Maker, Hat and Cap
7622-03	75323	Maker, Garment
7622-04	75324	Cutter, Garment
7622-05	75325	Cutter, Tent
7622-06	75325	Cutter, Sail
7622-07	75325	Cutter, Umbrella
7622-08	75325	Cutter, Gloves
7622-09	75325	Cutter, Mattress
7622-10	75326	Pattern-Maker, Paper
7622-11	75326	Pattern-Maker, Tent
7622-12	75326	Pattern-Maker, Sail
7622-13	75326	Pattern-Maker, Umbrella
7622-14	75326	Pattern-Maker, Gloves
7622-15	75326	Pattern-Maker, Mattress
7622-16	New	Pattern-Maker, Fur
<b>7623</b>		<b>SHOEMAKERS AND RELATED WORKERS</b>
7623-01	75331	Shoemaker
7623-02	75332	Maker, Surgical Footwear
7623-03	75332	Shoemaker, Orthopaedic
7623-04	75333	Repairer, Footwear
7623-05	75333	Cobbler
7623-06	75334	Pattern-Maker, Shoe
7623-07	75336	Maker, Sports Footwear
7623-08	75336	Maker, Sports Footwear Equipment
7623-09	New	Maker, Leather Handbag
7623-10	New	Maker, Purse
7623-11	New	Maker, Belt
<b>7624</b>		<b>UPHOLSTERERS AND RELATED WORKERS</b>
7624-01	75341	Upholsterer, Furniture

MASCO 2013	MASCO 2008	JOB TITLE
7624-02	75342	Upholsterer, Vehicle
7624-03	75343	Maker, Mattress
7624-04	75344	Maker, Cushion
7624-05	75344	Maker, Soft Furnishing
7624-06	75345	Maker, Bedding
7624-07	75347	Upholsterer, Aircraft
7624-08	75348	Upholsterer, Railway Carriage
7624-09	New	Upholsterer, Orthopaedic
<b>7625</b>		<b>PELT DRESSERS, TANNERS AND FELLMONGERS</b>
7625-01	75351	Pelt Dresser
7625-02	75351	Tanner
7625-03	75351	Fellmonger
<b>7631</b>		<b>UNDERWATER DIVERS</b>
7631-01	75411	Diver
7631-02	75412	Diver, Construction
7631-03	75413	Underwater Worker
7631-04	New	Underwater Diver
<b>7632</b>		<b>SHOTFIRERS AND BLASTERS</b>
7632-01	New	Blaster
7632-02	New	Shotfirer
7632-03	75421	Explosives Worker
7632-04	75422	Defonator
<b>7633</b>		<b>PRODUCT GRADERS AND TESTERS (EXCLUDING FOODS AND BEVERAGES)</b>
7633-01	75431	Grader, Fibre
7633-02	New	Quality Inspector
7633-03	New	Wool Classer
<b>7634</b>		<b>FUMIGATORS AND PEST AND WEED CONTROLLERS</b>
7634-01	75441	Pest Controller
7634-02	New	Fumigator
7634-03	75442	Forging Worker, Bee
7634-04	75442	Forging Worker, Mosquito
7634-05	75442	Forging Worker, Ant
7634-06	75443	Fumigation Operator, Service
7634-07	75443	Fumigation Operator, Weed
7634-08	75443	Fumigation Operator, Soil
7634-09	New	Weed Controller
<b>7639</b>		<b>OTHER RELATED CRAFT WORKERS NOT ELSEWHERE CLASSIFIED</b>
7639-01	81324	Assistant Camera Operator, Grade N11
7639-02	96298	Camera/Driver Assistant, Grade N3
7639-03	New	Optical Lens Finisher
7639-04	New	Optical Lens Moulder

**8****PLANT AND MACHINE OPERATORS AND ASSEMBLERS****8111****MINERS AND QUARRY WORKERS**

8111-01	81111	Miner
8111-02	81112	Quarrier
8111-03	New	Machine Operator, Drilling
8111-04	81111	Machine Operator, Mine Drilling
8111-05	81111	Cutting Machine Operator, Mine
8111-06	81111	Sampler, Mine
8111-07	81112	Drilling Machine Operator, Quarry
8111-08	81112	Sampler, Quarry



MASCO 2013	MASCO 2008	JOB TITLE
8111-09	81119	Timberman, Underground
8111-10	New	Dragline Operator (Mining)
8111-11	New	Mining Plant Operator
8111-12	New	Roof Bolter (mining)
8111-13	New	Coal Miner
<b>8112</b>		<b>MINERAL AND STONE PROCESSING PLANT OPERATORS</b>
8112-01	81121	Machine Operator, Stone Processing
8112-02	81121	Machine Operator, Stone Splitting
8112-03	81121	Machine Operator, Stone Crushing
8112-04	81122	Machine Operator, Stone Milling
8112-05	81122	Machine Operator, Mineral Milling
8112-06	81123	Operator, Magnetic Separator
8112-07	81123	Worker, Mineral Floatation
8112-08	81123	Dresser, Tin Ore
8112-09	81124	Keeper, Jig
8112-10	81129	Plant Processing Operator, Mineral and Stone
8112-11	New	Batching Plant Operator
8112-12	New	Coal Washer
8112-13	New	Crusher Operator (Mineral or Stone Processing)
<b>8113</b>		<b>WELL DRILLERS AND BORERS AND RELATED WORKERS</b>
8113-01	81131	Operator, Drilling Equipment
8113-02	81131	Operator, Cable Drilling Equipment
8113-03	81131	Operator, Well Drilling Equipment
8113-04	81132	Operator, Oil and Gas Well Derrick
8113-05	81132	Operator, Oil and Gas Well Pulling Equipment
8113-06	81133	Machine Operator, Well Boring Equipment
8113-07	81134	Driller
8113-08	81123	Attendant, Trommel
8113-09	New	Boring Equipment Operator
8113-10	New	Bore Sinker
8113-11	New	Derrickman
8113-12	New	Derrick Operator
8113-13	New	Toolpusher
8113-14	New	Tourpusher
<b>8114</b>		<b>CEMENT, STONE AND OTHER MINERAL PRODUCTS MACHINE OPERATORS</b>
8114-01	81141	Machine Operator, Concrete Mixing
8114-02	81141	Machine Operator, Cast Concrete Product
8114-03	81141	Machine Operator, Cement Product
8114-04	81142	Machine Operator, Asbestos
8114-05	81142	Machine Operator, Asbestos-Cement Product
8114-06	81143	Machine Operator, Cast Stone
8114-07	81143	Machine Operator, Terrazzo Tile
8114-08	81143	Machine Operator, Abrasive Coating
8114-09	New	Machine Operator, Diamond Polishing
8114-10	New	Machine Operator, Stone Polishing
<b>8121</b>		<b>METAL PROCESSING PLANT OPERATORS</b>
8121-01	New	Furnace Operator
8121-02	81211	Furnace Operator, Steel Refining
8121-03	81211	Furnace Operator, Steel Converting
8121-04	81212	Hot-Roller Operator, Steel
8121-05	81213	Furnace Operator, Metal Melting
8121-06	81213	Furnace Operator, Metal Melting (Blast-Furnace)
8121-07	81213	Furnace Operator, Metal Reheating
8121-08	81213	Furnace Operator, Metal Case-Hardening
8121-09	81213	Furnace Operator, Metal Hardening
8121-10	81213	Furnace Operator, Non-Ferrous Metal Refining

MASCO 2013	MASCO 2008	JOB TITLE
8121-11	81211	Converter Blowing Operator, Steel Converting
8121-12	81213	Furnace Operator, Metal Heat-Treating
8121-13	81214	Machine Operator, Metal Drawing
8121-14	81214	Machine Operator, Die-Casting
8121-15	81214	Machine Operator, Metal Casting
8121-16	81214	Machine Operator, Centrifugal Casting
8121-17	81214	Operator, Non-Ferrous Metal Rolling Mill
8121-18	81215	Operator, Mill Table
8121-19	81215	Drawer, Metal
8121-20	81215	Extruder, Metal
8121-21	81215	Annealer, Metal
8121-22	81216	Machine Operator, Barbed-Wire
8121-23	81216	Machine Operator, Seamless Pipe and Tube
8121-24	81216	Machine Operator, Wire Stripping and Cutting
8121-25	81216	Machine Operator, Wire Drawing
8121-26	81216	Machine Operator, Insulating
8121-27	81216	Machine Operator, Wire Extruding
8121-28	81216	Drawer, Wire
8121-29	81216	Drawer, Seamless Pipe and Tube
8121-30	81217	Smelting Operator
8121-31	81218	Operator, Steel Fabricator
8121-32	New	Steel Roller
<b>8122</b>		<b>METAL FINISHING, PLATING AND COATING MACHINE OPERATORS</b>
8122-01	81221	Machine Operator, Metal Electroplating
8122-02	81221	Electroplater
8122-03	81222	Machine Operator, Metal Dipping
8122-04	81222	Hot-Dip Plater
8122-05	81223	Machine Operator, Metal Galvanising
8122-06	81223	Galvaniser
8122-07	81224	Machine Operator, Sandblaster Equipment
8122-08	81224	Sandblaster, Metal
8122-09	81225	Machine Operator, Cast Metal Article Finishing
8122-10	81225	Casting Finisher
8122-11	81225	Cleaner, Metal
8122-12	81226	Machine Operator, Metal Spraying
8122-13	81227	Oxidiser
8122-14	81228	Operator, Moulding
<b>8131</b>		<b>CHEMICAL PRODUCTS PLANT AND MACHINE OPERATORS</b>
8131-01	81311	Machine Operator, Paint-Mixing
8131-02	81311	Machine Operator, Chemical Process Mixing and Blending
8131-03	81311	Machine Operator, Glue-Mixing
8131-04	81311	Machine Operator, Chemical Process Pulverising
8131-05	81311	Roll-Mill Operator, Chemical Processes
8131-06	81311	Crushing Operator, Chemical Processes
8131-07	81311	Match Compounder, Chemical Processes
8131-08	81312	Heat-Treating Plant Operator, Chemical Processes
8131-09	81312	Dry Operator, Chemical Processes
8131-10	81312	Cooking Equipment Operator, Chemical Processes
8131-11	81312	Roasting Equipment Operator, Chemical Processes
8131-12	81312	Retort Operator, Chemical Processes
8131-13	81312	Spray-Dried Operator, Chemical Processes
8131-14	81312	Kiln-Operator, Chemical Processes
8131-15	81312	Cement Furnaceman
8131-16	81312	Roaster, Chemical Processes
8131-17	81312	Cooker, Chemical Processes
8131-18	81313	Press-Operator, Chemical Process Filter
8131-19	81313	Sieving Machine Operator, Chemical Processes
8131-20	81313	Separator Operator, Chemical Processes

MASCO 2013	MASCO 2008	JOB TITLE
8131-21	81313	Crude Oil Treating Equipment Operator
8131-22	81313	Rotary Drum Filterer
8131-23	81314	Acid Plant Operator
8131-24	81314	Fertiliser Plant Operator
8131-25	81314	Bleach Operator, Chemical
8131-26	81314	Vacuum Pan Chemical Operator (Except Petroleum and Natural Gas)
8131-27	81314	Operator, Chemical Process Coverter (Except Petroleum and Natural Gas)
8131-28	81314	Evaporator Operator
8131-29	81314	Operator, Still Batch (Chemical Processes Except Petroleum and Natural Gas)
8131-30	81314	Operator, Still Chemical Processes
8131-31	81314	Operator, Still Continuous (Chemical Processes Except Petroleum and Natural Gas)
8131-32	81314	Operator, Still Turpentine
8131-33	81314	Kiln Operator, Charcoal
8131-34	81314	Sulphur Burner
8131-35	81314	Foam Maker, Chemical
8131-36	81314	Yarn Maker, Synthetic
8131-37	81314	Reactor-Convertor (Chemical Processes)
8131-38	81314	Enameller, Chemical
8131-39	81315	Treat Operator, Radioactive Waste
8131-40	81316	Machine Operator, Detergent Production
8131-41	81316	Machine Operator, Coke Production
8131-42	81316	Machine Operator, Mosquito Coil Production
8131-43	81316	Machine Operator, Pharmaceutical Products
8131-44	81316	Machine Operator, Toiletry Products
8131-45	81317	Machine Operator, Chemical and Related Material Washing
8131-46	81317	Machine Operator, Explosives Production
8131-47	81317	Machine Operator, Fireworks Production
8131-48	81317	Machine Operator, Halogen Gas Production
8131-49	81317	Machine Operator, Hydrogen Gas Production
8131-50	81317	Machine Operator, Chlorine Gas Production
8131-51	81317	Machine Operator, Candle Production
8131-52	81317	Machine Operator, Linoleum Production
8131-53	81317	Machine Operator, Match Production
8131-54	81317	Machine Operator, Pencil Production
8131-55	81317	Machine Operator, Lead Production
8131-56	81317	Machine Operator, Ammunition Products
<b>8132</b>		<b>PHOTOGRAPHIC PRODUCTS MACHINE OPERATORS</b>
8132-01	New	General Assistant, Photography
8132-02	81321	Machine Operator, Photography Printing
8132-03	81321	Machine Operator, Photography Development
8132-04	81321	Machine Operator, Scanning and Filming
8132-05	81323	Machine Operator, Film Processing Machine
8132-06	81323	Machine Operator, Photograph Enlarging
8132-07	81323	Machine Operator, Photographic Film Production
8132-08	81323	Machine Operator, Film Paper Production
8132-09	81323	Machine Operator, Photographic Plate Production
8132-10	81323	Machine Operator, Photographic Products
8132-11	81325	Operator, Audio-Visual Aids
8132-12	81327	Operator, Sound and Image Recording Equipment
8132-13	81327	Operator, Television Camera
8132-14	81327	Operator, Motion Picture Camera
8132-15	81327	Operator, Film-Recorder
8132-16	81327	Operator, Video Tape-Recorder
8132-17	81327	Operator, Radio and Television Studio Equipment
8132-18	81327	Operator, Telecine
8132-19	81328	Photo Finisher
8132-20	New	Operator, Photography
8132-21	New	Operator, Darkroom
8132-22	New	Photographic Processor

MASCO 2013	MASCO 2008	JOB TITLE
8132-23	New	Photographic Film Printer
8132-24	New	Developing Machine Operator - Photography
8132-25	New	Machine Operator, Printing/Photography (Colour)
8132-26	New	Film/Colour Developer
8132-27	New	Photograph Enlarger
8132-28	New	Photograph Printer
<b>8141</b>		<b>RUBBER PRODUCTS MACHINE OPERATORS</b>
8141-01	81411	Machine Operator, Rubber Milling
8141-02	81412	Machine Operator, Rubber Extruding
8141-03	81413	Press-Operator, Rubber Moulding
8141-04	81414	Machine Operator, Rubber Calender
8141-05	81415	Machine Operator, Rubber Cutting
8141-06	81416	Machine Operator, Tyre Production
8141-07	81416	Maker, Tyre
8141-08	81417	Machine Operator, Rubber Stamp Production
8141-09	81417	Machine Operator, Rubber Products
8141-10	81417	Maker, Air-Bag
8141-11	81417	Maker, Rubber Foam
8141-12	81417	Maker, Hose
8141-13	New	Latex Foam Machine Operator
8141-14	New	Moulder, Rubber
8141-15	New	Mill, Rubber
8141-16	93221	Rubber Coagulator
8141-17	93222	Sheet Rubber Maker
8141-18	93223	Attendant, Rubber Smokehouse
8141-19	93225	Rubber Sheet Clipper and Sorter
8141-20	93226	Cleaner, Latex Tank
8141-21	93227	Worker, Heavecrumb Process
8141-22	93228	Machine Operator, Rubber Laminating
<b>8142</b>		<b>PLASTIC PRODUCTS MACHINE OPERATORS</b>
8142-01	81421	Machine Operator, Plastic Mixing
8142-02	81422	Press-Machine Operator, Plastic Laminating
8142-03	81423	Machine Operator, Plastic Extruding
8142-04	81425	Machine Operator, Plastic Compression Moulding
8142-05	81426	Machine Operator, Vacuum Plastic-Forming
8142-06	81427	Machine Operator, Plastic Tableting
8142-07	81427	Machine Operator, Plastic Embossing
8142-08	81428	Machine Operator, Plastic Production
8142-09	81429	Machine Operator, Plastic Products
8142-10	81433	Machine Operator, Plastic Straw Production
8142-11	New	Moulder, Plastic
8142-12	New	Machine Operator, Plastic Cable
<b>8143</b>		<b>PAPER PRODUCTS MACHINE OPERATORS</b>
8143-01	81431	Machine Operator, Carton and Paper Box Production
8143-02	81431	Machine Operator, Paper Products
8143-03	81432	Machine Operator, Cellophane Bag Production
8143-04	81432	Machine Operator, Envelope Production
8143-05	81434	Machine Operator, Joss Paper Production
8143-06	81435	Machine Operator, Cardboard Presser
8143-07	81435	Machine Operator, Cardboard Products
8143-08	New	Papier Mache Moulder
8143-09	81432	Machine Operator, Paper Bag Production
<b>8151</b>		<b>FIBRE PREPARING, SPINNING AND WINDING MACHINE OPERATORS</b>
8151-01	81511	Machine Operator, Thread and Yarn Twisting
8151-02	81511	Thread and Yarn Winder
8151-03	81511	Thread and Yarn Spinner

MASCO 2013	MASCO 2008	JOB TITLE
8151-04	81511	Silk Reeler
8151-05	81512	Machine Operator, Cotton-Mixing
8151-06	81512	Machine Operator, Fibre Preparation
8151-07	81513	Machine Operator, Rope-Laying
8151-08	81515	Machine Operator, Braid Production
<b>8152</b>		<b>WEAVING AND KNITTING MACHINE OPERATORS</b>
8152-01	81521	Machine Operator, Warping Beam (Textile Weaving)
8152-02	81521	Machine Operator, Weaving
8152-03	81521	Machine Operator, Carpet Weaving
8152-04	81522	Machine Operator, Knitting
8152-05	81522	Machine Operator, Net Production
8152-06	81523	Wrinkle Machine Operator, Textile
8152-07	81523	Machine Operator, Textile Size
8152-08	81524	Assembler, Weaving Machine
8152-09	81524	Jacquard Card Cutter
8152-10	81525	Machine Operator, Lace Production
8152-11	New	Machine Operator, Fabric Weaving
<b>8153</b>		<b>SEWING MACHINE OPERATORS</b>
8153-01	81531	Sewing Machine Operator
8153-02	81531	Sewing Machine Operator, Leather
8153-03	81532	Sewing Machine Operator, Crochet
8153-04	81533	Sewing Machine Operator, Embroidery
8153-05	81525	Machine Operator, Fabric Repairer
<b>8154</b>		<b>BLEACHING, DYEING AND FABRIC CLEANING MACHINE OPERATORS</b>
8154-01	81541	Machine Operator, Textile Bleaching
8154-02	81542	Machine Operator, Dyeing
8154-03	81543	Machine Operator, Starch
8154-04	81544	Machine Operator, Washing
8154-05	81545	Machine Operator, Textile Dyeing
8154-06	81546	Machine Operator, Dry-Cleaning
8154-07	81547	Operator, Textile Calender
8154-08	81544	Machine Operator, Textile Shrinking
<b>8155</b>		<b>FUR AND LEATHER PREPARING MACHINE OPERATORS</b>
8155-01	81551	Machine Operator, Hide Processing
8155-02	81552	Machine Operator, Hide Fleshing
8155-03	81553	Machine Operator, Hide Dehairing
8155-04	81554	Machine Operator, Tanning
8155-05	81556	Machine Operator, Leather Cutting
<b>8156</b>		<b>SHOEMAKING AND RELATED MACHINE OPERATORS</b>
8156-01	81561	Machine Operator, Footwear Production
8156-02	81562	Machine Operator, Orthopaedic Footwear Production
8156-03	81563	Machine Operator, Sports Footwear Production
8156-04	New	Machine Operator, Safety Footwear Production
8156-05	New	Machine Operator, Footwear Production for Special/ Disabled Person
8156-06	New	Machine Operator, Baggage Production
8156-07	New	Machine Operator, Handbag Production
8156-08	New	Machine Operator, Belt Production
8156-09	New	Machine Operator, Harness
<b>8157</b>		<b>LAUNDRY MACHINE OPERATORS</b>
8157-01	81571	Machine Operator, Textile Fibre Dyeing
8157-02	81572	Machine Operator, Laundering
8157-03	81573	Machine Operator, Laundry Presser

MASCO 2013	MASCO 2008	JOB TITLE
<b>8159</b>		<b>TEXTILE, FUR AND LEATHER PRODUCTS MACHINE OPERATORS NOT ELSEWHERE CLASSIFIED</b>
8159-01	81591	Machine Operator, Garment Cutting
8159-02	81592	Machine Cutter, Leather Garments
8159-03	81593	Machine Operator, Textile Cutting
8159-04	81594	Machine Operator, Hat Making
8159-05	81594	Machine Operator, Mattress Production
8159-06	81595	Machine Operator, Leather Pattern-Making
8159-07	81596	Machine Operator, Textile Pattern-Making
8159-08	81597	Machine Operator, Cloth Folding
<b>8161</b>		<b>FOOD AND RELATED PRODUCTS MACHINE OPERATORS</b>
8161-01	81601	Machine Operator, Meat Processing
8161-02	81601	Machine Operator, Fish Processing
8161-03	81601	Machine Operator, Food Processing
8161-04	New	Machine Operator, Slaughtering
8161-05	81601	Machine Operator, Shrimp Paste Production
8161-06	81601	Machine Operator, Fish Food Production
8161-07	81601	Machine Operator, Sausage Production
8161-08	81601	Machine Operator, Meat Canning
8161-09	81601	Machine Operator, Fish Canning
8161-10	81602	Attendant, Dairy Product Churning
8161-11	81602	Machine Operator, Dairy Product Processing
8161-12	81602	Machine Operator, Ice-Cream Production
8161-13	81602	Machine Operator, Milk Powder Production
8161-14	81602	Machine Operator, Dairy Product Churning
8161-15	81602	Machine Operator, Butter Products
8161-16	81602	Vacuum Pan Operator, Condensed Milk
8161-17	81602	Operator, Dairy Product Sterilising
8161-18	81602	Cream Separator, Dairy
8161-19	81603	Attendant, Foodgrain Milling
8161-20	81603	Machine Operator, Mustard Seed Milling
8161-21	81603	Milling Assistant
8161-22	81603	Mixer, Spice
8161-23	81603	Blender, Flour
8161-24	81603	Miller, Grain
8161-25	81605	Miller, Oil Seed
8161-26	81605	Miller, Palm Oil
8161-27	81603	Grinder, Feed
8161-28	81603	Miller, Rice
8161-29	81603	Miller, Spice
8161-30	81603	Miller, Tapioca
8161-31	81604	Machine Operator, Wafer-Baking
8161-32	81604	Machine Operator, Yeast Making
8161-33	81604	Machine Operator, Cereal Production
8161-34	81604	Machine Operator, Chocolate Production
8161-35	81604	Machine Operator, Confectionery Production
8161-36	81604	Machine Operator, Noodle Production
8161-37	81604	Machine Operator, Pasta Production
8161-38	81604	Machine Operator, Pastry Production
8161-39	81604	Machine Operator, Bread Production
8161-40	81604	Machine Operator, Sago Production
8161-41	81605	Attendant, Oil Palm Sterilising
8161-42	81605	Press-Operator, Fruit
8161-43	81605	Press-Operator, Edible Oils
8161-44	81605	Machine Operator, Nut Processing
8161-45	81605	Machine Operator, Margarine Processing
8161-46	81605	Machine Operator, Vegetable Processing
8161-47	81605	Machine Operator, Oil and Fat Refining
8161-48	81605	Machine Operator, Fruit Juice Production
8161-49	81605	Machine Operator, Vegetable Juice Production



MASCO 2013	MASCO 2008	JOB TITLE
8161-50	81605	Machine Operator, Sauce Production
8161-51	81605	Machine Operator, Food Canning
8161-52	81605	Operator, Margarine Plant
8161-53	81605	Operator, Fractionation Plant
8161-54	81605	Nut Roaster
8161-55	81605	Maker, Jam
8161-56	81605	Maker, Peanut Butter
8161-57	81605	Preserver, Sauces and Condiments
8161-58	81605	Dehydrator, Foodstuffs
8161-59	81606	Operator, Sugar Processing and Refining
8161-60	81607	Attendant, Pasteuriser (Brewery)
8161-61	81607	Attendant, Filtration
8161-62	81607	Machine Operator, Vinegar Making
8161-63	81607	Machine Operator, Soft Drink Production
8161-64	81607	Machine Operator, Spirit Brewing
8161-65	81607	Machine Operator, Liquor Production
8161-66	81607	Machine Operator, Spirit Distilling
8161-67	81607	Operator, Spirit Fermentation Equipment
8161-68	81607	Kiln-Operator, Spirit Malting
8161-69	81607	Operator, Syrup-Mixing Plant
8161-70	81607	Operator, Malting Germination Equipment
8161-71	81607	Maker, Malting Germination Equipment
8161-72	81607	Carbonation Man (Malt Liquor)
8161-73	81607	Machine Operator, Brew
8161-74	81608	Machine Operator, Cigar Production
8161-75	81608	Machine Operator, Cigarette Production
8161-76	81608	Machine Operator, Tobacco Production
8161-77	81609	Machine Operator, Feed Mixing
8161-78	81609	Machine Operator, Cocoa-Bean Processing
8161-79	81609	Machine Operator, Coffee-Bean Processing
8161-80	81609	Machine Operator, Tea-Leaf Processing
8161-81	81609	Machine Operator, Powdered Soup Production
8161-82	81609	Machine Operator, Bean Curd Production
8161-83	New	Miller Operator
8161-84	New	Flavour Mixer
8161-85	New	Food Processing Operator
8161-86	New	Food Grinder
8161-87	New	Machine Operator, Coconut Peeler
8161-88	New	Machine Operator, Potato Peeler
8161-89	New	Machine Operator, Pineapple Peeler
8161-90	New	Machine Operator, Nut Peeler
<b>8171</b>		<b>PULP AND PAPERMARKING PLANT OPERATORS</b>
8171-01	81711	Operator, Pulp Digester
8171-02	81712	Machine Operator, Chipping
8171-03	81713	Operator, Pulp Beater
8171-04	81714	Machine Operator, Wood Grinding
8171-05	81715	Operator, Bleach Machine
8171-06	81716	Cutter, Paper Pulp
8171-07	81717	Valve Operator, Paper Pulp
8171-08	81718	Machine Operator, Cardboard Production
8171-09	81718	Machine Operator, Papermaking
8171-10	81718	Machine Operator, Paper Cutting
8171-11	81718	Machine Operator, Coating
8171-12	81718	Operator, Paper-Pulp Plant
8171-13	New	Valve Operator
<b>8172</b>		<b>WOOD PROCESSING PLANT OPERATORS</b>
8172-01	81721	Operator, Sawmill
8172-02	81729	Saw Operator

MASCO 2013	MASCO 2008	JOB TITLE
8172-03	81721	Saw Operator, Wet Timber
8172-04	81721	Saw Operator, Wood
8172-05	81721	Saw Operator, Sawmill
8172-06	81722	Lathe-Operator, Veneer Cutting
8172-07	81722	Lathe Feeder, Veneer
8172-08	81722	Cutter, Veneer
8172-09	81723	Plywood Core Layer
8172-10	81724	Press-Operator, Plywood
8172-11	81725	Machine Operator, Wood Seasoning
8172-12	81726	Machine Operator, Incising (Wood Preserving)
8172-13	81726	Machine Operator, Wood Treating
8172-14	81727	Operator, Veneer Dryer
8172-15	81728	Operator, Auto-Clipper
8172-16	81729	Setter, Veneer
8172-17	92154	Operator, Tacky Timber
<b>8173</b>		<b>WOOD PRODUCTS MACHINE OPERATORS</b>
8173-01	81731	Lathe-Operator, Woodworking
8173-02	81731	Machinist, Wood
8173-03	81733	Lathe Operator, Wood (Machine)
8173-04	81736	Machine Operator, Wood Carving
8173-05	81734	Machine Operator, Wood-Wool
8173-06	81735	Operator, Sander
8173-07	81737	Machine Operator, Furniture Production
8173-08	81738	Machine Operator, Wood Products
8173-09	New	Machinist
<b>8181</b>		<b>GLASS AND CERAMICS PLANT OPERATORS</b>
8181-01	81811	Machine Operator, Clay Mixing
8181-02	81812	Machine Operator, Glass Mixing
8181-03	81841	Furnace-Operator, Glass Production
8181-04	81841	Operator, Retort
8181-05	New	Kiln-Operator
8181-06	New	Furnace-Operator, Glass
8181-07	81842	Furnace-Operator, Annealing Glass
8181-08	81843	Kiln-Operator, Brick and Tile
8181-09	81844	Machine Operator, Ceramics Production
8181-10	81844	Machine Operator, Pottery and Porcelain
8181-11	81844	Machine Operator, Pottery and Porcelain Casting
8181-12	81844	Kiln-Operator, Pottery and Porcelain
8181-13	81845	Furnace-Operator, Glass Tempering
8181-14	81845	Temperer, Glass
8181-15	81846	Machine Operator, Glass Blowing
8181-16	81847	Machine Operator, Glass Etching
8181-17	81847	Machine Operator, Engraving Glass
8181-18	81848	Operator, Glass Sandblasting Equipment
8181-19	81849	Press-Operator, Clay Filtering
8181-20	81849	Machine Operator, Glass and Ceramics Kiln
8181-21	81849	Machine Operator, Abrasives Mixing
8181-22	81849	Machine Operator, Glass Pressing
8181-23	81849	Machine Operator, Brick-and-Tile Production
8181-24	81849	Machine Operator, Bottle Production
8181-25	81849	Machine Operator, Fibre Glass Production
8181-26	81849	Machine Operator, Glaze Production
8181-27	81849	Mixer, Clay
8181-28	81849	Clay Maker, Pottery
8181-29	81849	Maker, Fibre Glass
8181-30	81849	Maker, Glaze
8181-31	81849	Maker, Glass Tube
8181-32	81849	Mixer, Glass

MASCO 2013	MASCO 2008	JOB TITLE
8181-33	81849	Polisher, Glass Plate
<b>8182</b>		<b>STEAM ENGINE AND BOILER OPERATORS</b>
8182-01	31327	Plant Operator, Grade R3
8182-02	81822	Boilerman
8182-03	81821	Boiler Operator, Ship
8182-04	81821	Fire Operator, Ship
8182-05	81822	Operator, Steam Boiler Plant
8182-06	81823	Operator, Steam Engine
8182-07	81823	Fire Operator, Railway Engine
<b>8183</b>		<b>PACKING, BOTTLING AND LABELLING MACHINE OPERATORS</b>
8183-01	81831	Operator, Carton
8183-02	81832	Operator, Packing
8183-03	81833	Packer
8183-04	81834	Machine Operator, Labelling
8183-05	81835	Machine Operator, Packing
8183-06	81836	Machine Operator, Wrapping
8183-07	New	Machine Operator, Press
8183-08	82192	Machine Operator, Sealing
8183-09	82192	Machine Operator, Capping
8183-10	82193	Machine Operator, Bottling
8183-11	82193	Machine Operator, Container Filling
<b>8189</b>		<b>STATIONARY PLANT AND MACHINE OPERATORS NOT ELSEWHERE CLASSIFIED</b>
8189-01	New	Machine Operator
8189-02	82191	Production Operator
8189-03	81891	Equipment and Machine Operator
8189-04	81892	Heavy Machinery Operator
8189-05	81893	Machine Operator, Bending
8189-06	82194	Machine Operator, Insulation
8189-07	82196	Machine Operator, Silicon Chip Production
8189-08	82196	Machine Operator, Cable and Rope Splicing
8189-09	82196	Operator, Road Marking Equipment
8189-10	96297	Line Leader
8189-11	82129	Production Operator, Electronic Products
<b>8211</b>		<b>MECHANICAL MACHINERY ASSEMBLERS</b>
8211-01	New	Tradesman K2 - Fitter (Machinery), Grade R11
8211-02	New	Assembler
8211-03	New	Foreman
8211-04	82111	Assembler, Engine Marine
8211-05	82111	Assembler, Automobile
8211-06	82111	Assembler, Aircraft
8211-07	82113	Assembler, Refrigeration and Air-Conditioning Equipment
8211-08	82114	Assembler, Sewing Machine
8211-09	82115	Assembler, Mining Machinery
8211-10	82115	Assembler, Earth-Moving Equipment
8211-11	82115	Assembler, Machine Tool
8211-12	82116	Assembler, Printing Machinery
8211-13	82116	Assembler, Textile Machinery
8211-14	82117	Assembler, Industrial Machinery
8211-15	82118	Assembler, Wood Working Machinery
8211-16	82118	Assembler, Agricultural Machinery
8211-17	82119	Foreman, Mechanical
8211-18	82119	Fitter, Mechanical
8211-19	82111	Assembler, Motorcycle
8211-20	New	Assembler, Gearbox
8211-21	New	Assembler, Engine
8211-22	New	Assembler, Vehicle

MASCO 2013	MASCO 2008	JOB TITLE
8211-23	New	Assembler, Aircraft
8211-24	New	Assembler, Turbine
<b>8212</b>		<b>ELECTRICAL AND ELECTRONIC EQUIPMENT ASSEMBLERS</b>
8212-01		Tradesman K2 - Assembler (Aerial), Grade R11
8212-02	82121	Assembler, Electrical Equipment
8212-03	82122	Assembler, Electronic Equipment
8212-04	82123	Assembler, Semi-Conductor
8212-05	82124	Assembler, Battery
8212-06	82125	Assembler, Electric-sign
8212-07	82126	Assembler, Clock
8212-08	82126	Assembler, Watch
8212-09	82126	Assembler, Chronometer
8212-10	82126	Assembler, Office Machinery
8212-11	82127	Assembler, Hearing Aid
8212-12	82127	Assembler, Microelectronic Equipment
8212-13	82128	Assembler, Audio-Visual Equipment
8212-14	82129	Assembler, Precision Instrument
8212-15	New	Assembler, Telephone
8212-16	New	Assembler, Television
<b>8213</b>		<b>LEATHER, METAL, RUBBER AND PLASTIC PRODUCTS ASSEMBLERS</b>
8213-01	82131	Assembler, Leather Products
8213-02	82132	Assembler, Metal Products
8213-03	82133	Assembler, Rubber Products
8213-04	82134	Assembler, Plastic Products
8213-05	New	Assembler, Plastic Toy
8213-06	New	Assembler, Umbrella
<b>8219</b>		<b>ASSEMBLERS NOT ELSEWHERE CLASSIFIED</b>
8219-01	New	Tradesman K3 - Apparatus Assembler, Grade R9
8219-02	82198	Assembler, Wood Products
8219-03	82199	Assembler, Composite Products
8219-04	82199	Assembler, Textile Products
8219-05	82112	Assembler, Bicycle
8219-06	New	Assembler, Door
8219-07	New	Assembler, Eyeglass Frame
8219-08	New	Furniture Finisher, wood
8219-09	New	Assembler, Jewellery
8219-10	New	Assembler, Knife
8219-11	New	Luggage Finisher
8219-12	New	Assembler, Paperboard Products
8219-13	New	Assembler, Pen and Pencil
8219-14	New	Assembler, Sun-Blinds
8219-15	New	Assembler, Thermos Bottle
<b>8221</b>		<b>MACHINE-TOOL SETTER-OPERATORS</b>
8221-01	82211	Operator, Metal Forming Machine
8221-02	82211	Operator, Watch Production Machine
8221-03	82211	Operator, Needle Production Machine
8221-04	82211	Operator, Cable Production Machine
8221-05	82211	Operator, Metal Except Forging Press-Machine
8221-06	82211	Operator, Metal Punching Press-Machine
8221-07	82211	Operator, Metal Stamping Press-Machine
8221-08	82211	Operator, Metal Spinning Machine
8221-09	82211	Operator, Metal Bending Machine
8221-10	82211	Operator, Metal Reaming Machine
8221-11	82211	Operator, Metal Buffing Machine
8221-12	82211	Operator, Metal Coremaking Machine
8221-13	82211	Operator, Metal Moulding Machine

MASCO 2013	MASCO 2008	JOB TITLE
8221-14	82211	Operator, Metal Flamecutting Machine
8221-15	82211	Operator, Metal Cutting Machine
8221-16	82211	Operator, Metal Sharpening Machine
8221-17	82211	Operator, Electric Wiring Machine
8221-18	82211	Operator, Metal Forging Machine
8221-19	82211	Operator, Metal Referring Machine
8221-20	82211	Operator, Metal Toy Production Machine
8221-21	82211	Operator, Wire Goods Production Machine
8221-22	82211	Operator, Boiler Production Machine
8221-23	82211	Operator, Clock Production Machine
8221-24	82211	Operator, Metal Nut Production Machine
8221-25	82211	Operator, Pipe Production Machine
8221-26	82211	Operator, Nail Production Machine
8221-27	82211	Operator, Jewellery Production Machine
8221-28	82211	Operator, Commutator Production Machine
8221-29	82211	Operator, Tool Production Machine
8221-30	82211	Operator, Rivet Production Machine
8221-31	82211	Operator, Zip Production Machine
8221-32	82211	Operator, Metal Burnishing Machine
8221-33	82211	Operator, Metal Etching Machine
8221-34	82211	Operator, Metal Welding Machine
8221-35	82211	Operator, Metal Grinding Machine
8221-36	82211	Operator, Metal Engraving Machine
8221-37	82211	Operator, Metal Lapping Machine
8221-38	82211	Operator, Core-Blowing Machine
8221-39	82211	Operator, Metal Sports Equipment Machine
8221-40	82211	Operator, Metal Shearing Machine
8221-41	82211	Operator, Riveting Machine
8221-42	82211	Operator, Metal Products Machine
8221-43	82211	Operator, Metal Minting Machine
8221-44	82211	Setter-Operator, Metalworking Machine
8221-45	82211	Coremaker, Foundry Machine
8221-46	82211	Metal Roller and Engraver -Printing Machine
8221-47	New	Setter-operator
8221-48	82212	Setter-Operator, Lathe
8221-49	82213	Setter-Operator, Shaping Machine
8221-50	82214	Setter-Operator, Boring and Drilling Machine
8221-51	82215	Setter-Operator, Honing Machine
8221-52	82216	Setter-Operator, Milling Machine
8221-53	82217	Setter-Operator, Reaping Machine
8221-54	New	Lathe Machine Operator
<b>8311</b>		<b>LOCOMOTIVE ENGINE DRIVERS</b>
8311-01	83115	Engine Driver (Bukit Bendera Train), Grade R9
8311-02	83117	Locomotive Driver, Grade AA13
8311-03	83111	Railway Driver
8311-04	83111	Locomotive Driver
8311-05	83112	Operator, Commuter
8311-06	83112	Operator, Mono-Rail
8311-07	83112	Operator, Light Rail Transit
8311-08	83113	Engine Driver, Mine
8311-09	83114	Driver, Engine
8311-10	83114	Driver's Assistant, Locomotive
<b>8312</b>		<b>RAILWAY BRAKE, SIGNAL AND SWITCH OPERATORS</b>
8312-01	83121	Braker, Railway
8312-02	83122	Signaller, Railway
8312-03	83123	Shunter, Railway
8312-04	83124	Yardman
8312-05	83124	Coupler, Railway Yard

MASCO 2013	MASCO 2008	JOB TITLE
8312-06	83125	Pointsman, Railway
8312-07	83126	Gateman, Railway
<b>8321</b>		<b>MOTORCYCLE RIDERS (DRIVERS)</b>
8321-01	83211	Motorcyclist
8321-02	83212	Rider, Despatch
8321-03	83213	Driver, Rickshaw
8321-04	83214	Driver, Motorised Tricycle
<b>8322</b>		<b>CAR, TAXI AND VAN DRIVERS</b>
8322-01	83228	Driver, Grade R3
8322-02	83227	General Worker (Driver), Grade 1
8322-03	MIDA	General Worker (Driver), Grade 1
8322-04	83221	Driver, Taxi
8322-05	83222	Chauffeur
8322-06	83222	Driver, Office Manager
8322-07	83223	Driver, Van
8322-08	83225	Car Jockey
8322-09	83226	Driver, Personal
8322-10	83226	Driver, Car
8322-11	83224	Driver, Ambulans
<b>8331</b>		<b>BUS AND TRAM DRIVERS</b>
8331-01	83311	Driver, Bus
8331-02	83312	Driver, Tram
8331-03	83314	Motor Coach Driver
8331-04	83313	Assistant, Bus Driver
<b>8332</b>		<b>HEAVY TRUCK AND LORRY DRIVERS</b>
8332-01	83321	Driver, Lorry
8332-02	83321	Assistant Driver, Lorry
8332-03	83322	Driver, Fire-Engine
8332-04	83323	Driver, Dump Truck
8332-05	83324	Driver, Truck
8332-06	83325	Driver, Tanker
8332-07	83326	Driver, Tow Truck
8332-08	83328	Driver, Log
8332-09	New	Driver, Concrete Mixer
<b>8341</b>		<b>MOBILE FARM AND FORESTRY PLANT OPERATORS</b>
8341-01	83411	Operator, Motorised Farm Equipment
8341-02	83411	Driver, Farm Tractor
8341-03	83412	Driver, Timber Carrier
8341-04	83413	Driver, Winch Truck
8341-05	83414	Operator, Harvester
<b>8342</b>		<b>EARTH-MOVING AND RELATED PLANT OPERATORS</b>
8342-01	83421	Operator, Backhoe
8342-02	83422	Machine Operator, Trench Digging
8342-03	83423	Operator, Piling-Driver
8342-04	83424	Operator, Bulldozer
8342-05	83424	Driver, Ditch Backhoe
8342-06	83425	Operator, Road Making Machine
8342-07	83425	Operator, Road Roller
8342-08	83425	Operator, Road Grader and Scraper
8342-09	83426	Winchman, Dredging
8342-10	83426	Operator, Backhoe Dredger
8342-11	83427	Operator, Tunnelling Construction Machinery
8342-12	83428	Operator, Drilling Plant
8342-13	83429	Operator, Tamping Construction Machinery



MASCO 2013	MASCO 2008	JOB TITLE
8342-14	83429	Operator, Dragline
8342-15	83429	Excavator Operator
8342-16	83429	Tunnel Concretor
8342-17	83429	Tunnel Fabricator
8342-18	83429	Tunnel Worker
<b>8343</b>		<b>CRANE, HOIST AND RELATED PLANT OPERATORS</b>
8343-01	83116	Driver/ Operator, Crane, Grade R3
8343-02	83431	Operator, Crane
8343-03	83432	Operator, Hoist
8343-04	83433	Operator, Winch
8343-05	83434	Operator, Material Handling Lift
8343-06	83435	Operator, Cable Car
8343-07	New	Operator, Tower Crane
8343-08	New	Operator, Mobile Crane
<b>8344</b>		<b>LIFTING TRUCK OPERATORS</b>
8344-01	83441	Operator, Forklift Truck
8344-02	83442	Operator, Industrial Truck
8344-03	83443	Operator, Lifting Truck
8344-04	New	Forklift Truck Driver
<b>8351</b>		<b>SHIPS' DECK CREWS AND RELATED WORKERS</b>
8351-01	83501	Helmsman
8351-02	83501	Driver, Boat
8351-03	83501	Rower, Canoe
8351-04	83501	Ship Quatermaster
8351-05	83501	Deckhand (Ship, Barge and Boat)
8351-06	83502	Senior Sailor
8351-07	83503	Crewman
8351-08	83503	Sailor
8351-09	83503	Assistant, Shipping
8351-10	83504	Crew, Ship
8351-11	83504	Crew, Ferry
8351-12	83505	Lighterman
8351-13	83506	Ram Controller
8351-14	83506	Life-Boatman
8351-15	83506	Keeper, Light House
8351-16	83509	Boatswain
8351-17	New	Able Seaman
8351-18	New	Ordinary Seaman
8351-19	New	Engine Oiler
8351-20	New	Machine Wiper
8351-21	75415	Dive Boatman
8351-22	New	Ferry Hand

**9****ELEMENTARY OCCUPATIONS**

<b>9111</b>		<b>DOMESTIC CLEANERS AND HELPERS</b>
9111-01	91111	Amah
9111-02	91111	Domestic Servant
9111-03	91111	Housemaid
9111-04	91111	Helper, Domestic
9111-05	91111	Helper, Housekeeper
9111-06	91111	Cleaner, House
9111-07	91112	Laundress, Household
9111-08	91113	Cleaner
9111-09	91115	Char Worker, Domestic
9111-10	51523	Linen Housekeeping Attendant

MASCO 2013	MASCO 2008	JOB TITLE
<b>9112</b>		<b>CLEANERS AND HELPERS IN OFFICES, HOTEL AND OTHER ESTABLISHMENTS</b>
9112-01	91121	Chambermaid
9112-02	91124	Cleaner, Hotel
9112-03	91124	Cleaner, Office
9112-04	91125	Washer
9112-05	91126	Cleaner, Building
9112-06	51524	Housekeeping Worker, Public Area
9112-07	New	Bellboy
9112-08	New	Housekeeping and Catering Service Workers
9112-09	91223	Cleaner, Aircraft (Interior)
9112-10	New	Cleaner, Vehicles (Interior)
9112-11	91125	Tea Lady
<b>9121</b>		<b>HAND LAUNDERERS AND IRONERS</b>
9121-01	91211	Worker, Laundry and Dry Cleaning
9121-02	91212	Ironer
9121-03	91213	Dry-Cleaner
9121-04	91214	Presser
<b>9122</b>		<b>VEHICLE CLEANERS</b>
9122-01	91222	Cleaner, Vehicles
9122-02	91222	Washer, Vehicles (Hand)
9122-03	91224	Washer, Auto-polish
9122-04	91225	Worker, Auto-sanding
<b>9123</b>		<b>SURFACE AND WINDOW CLEANERS</b>
9123-01	91231	Cleaner, Window
9123-02	New	Cleaner, Sliding Door
9123-03	New	Cleaner, Surface
<b>9129</b>		<b>OTHER CLEANING WORKERS NOT ELSEWHERE CLASSIFIED</b>
9129-01	91291	Worker, Toiletries
9129-02	91293	Worker, Washing
9129-03	91294	Cleaner, Carpet
9129-04	91295	Cleaner, Swimming Pool
9129-05	91296	Cleaner, Graffiti
<b>9211</b>		<b>CROP FARM LABOURERS</b>
9211-01	92111	Crop Farm Labourer
9211-02	92111	Crop Farm Labourer, Abaca
9211-03	92111	Crop Farm Labourer, Nuts
9211-04	92111	Crop Farm Labourer, Paddy
9211-05	92111	Crop Farm Labourer, Spice
9211-06	92111	Crop Farm Labourer, Vegetables
9211-07	92111	Crop Farm Labourer, Field Crop
9211-08	92111	Crop Farm Labourer, Sugarcane
9211-09	92111	Crop Farm Labourer, Tobacco
9211-10	92111	Crop Farm Labourer, Tapioca
9211-11	92113	Worker, Manuring
9211-12	New	Worker, Harvesting
9211-13	New	Fruit Picker
9211-14	New	Vegetable Picker
9211-15	New	Crop Farm Labourer, Oil Palm
9211-16	92112	Rubber Tapper
9211-17	New	Peeler, Coconut
9211-18	New	Peeler, Potato
9211-19	New	Peeler, Pineapple
9211-20	New	Peeler, Nuts
9211-21	New	Worker, Crop Farm Product
9211-22	New	Coconut Tapper

MASCO 2013	MASCO 2008	JOB TITLE
<b>9212</b>		<b>LIVESTOCK FARM LABOURERS</b>
9212-01	92121	Livestock Farm Labourer
9212-02	92121	Livestock Farm Cleaner
9212-03	92121	Livestock Farm Labourer, Dairy
9212-04	92121	Livestock Farm Labourer, Poultry
9212-05	92121	Collector, Egg
9212-06	92126	Sorter, Egg
<b>9213</b>		<b>MIXED CROP AND LIVESTOCK FARM LABOURERS</b>
9213-01	92131	Farm Labourer
<b>9214</b>		<b>GARDEN AND HORTICULTURAL LABOURERS</b>
9214-01	92142	Grass Cutter
9214-02	92143	Tree Cutter
9214-03	92144	Worker, Playground Maintenance
9214-04	92145	Worker, Golf Course Maintenance
9214-05	92146	Labourer, Landscape
9214-06	New	Labourer, Garden
9214-07	New	Labourer, Horticultural
9214-08	New	Labourer, Nursery
<b>9215</b>		<b>FORESTRY LABOURERS</b>
9215-01	92151	Labourer, Forestry
9215-02	92152	Labourer, Hunting
9215-03	92153	Labourer, Trapping
9215-04	New	Tree Planter
9215-05	96296	Tree Feller
<b>9216</b>		<b>FISHERY AND AQUACULTURE LABOURERS</b>
9216-01	92161	Labourer, Fishery
9216-02	New	Labourer, Aquaculture
9216-03	62214	Pond Worker, Shellfish
9216-04	62212	Worker, Fish Cage
9216-05	92161	Peeler, Anchovy
9216-06	New	Worker, Salted Fish
9216-07	New	Worker, Salted Egg
9216-08	New	Worker, Fishery and Aquaculture Products
<b>9219</b>		<b>AGRICULTURAL, FORESTRY, FARMING AND FISHERY WORKERS NOT ELSEWHERE CLASSIFIED</b>
9219-01	62215	Labourer, Crocodile Cage
9219-02	62216	Labourer, Snake Cage
<b>9311</b>		<b>MINING AND QUARRYING LABOURERS</b>
9311-01	93111	Bucket Labourer
9311-02	93111	Labourer, Mining
9311-03	93111	Worker, Tin Mine
9311-04	93111	Dulang Washer
9311-05	93112	Labourer, Quarry
9311-06	96297	Labourer, Sanding
9311-07	81129	Worker, Stone
<b>9312</b>		<b>CIVIL ENGINEERING LABOURERS</b>
9312-01	93121	Labourer, Construction (Civil Engineering)
9312-02	93122	Labourer, Maintenance (Dam)
9312-03	96293	Site Worker, General
9312-04	96294	Formwork Construction Worker
9312-05	96295	Piling Worker
9312-06	New	Labourer, Earth-Moving
9312-07	93135	Trackman, Railway

MASCO 2013	MASCO 2008	JOB TITLE
<b>9313</b>		<b>BUILDING CONSTRUCTION LABOURERS</b>
9313-01	93131	Hod Carrier
9313-02	93132	Labourer, Maintenance
9313-03	93132	Worker, Maintenance
9313-04	93133	Labourer, Digging
9313-05	93134	Land Clearer
9313-06	93136	Handyman, Building Construction
9313-07	93137	Labourer, Demolition
9313-08	New	Labourer, Construction (Building Work)
<b>9321</b>		<b>HAND PACKERS</b>
9321-01	93211	Packer (Hand)
9321-02	93212	Labeller (Hand)
9321-03	New	Wrapper (Hand)
<b>9329</b>		<b>MANUFACTURING LABOURERS NOT ELSEWHERE CLASSIFIED</b>
9329-01	93291	Labourer, Manufacturing
9329-02	93292	Sorter
9329-03	93293	Winder, Hand Coil
9329-04	93294	Labourer, Assembling
9329-05	93295	Washer, Hand Manufacturing
9329-06	93299	Hand Mixer
9329-07	93299	Maker, Hand Carton and Paper Box
9329-08	93224	Smokehouse Stoker
9329-09	New	Bottle Sorter
9329-10	New	Factory Hand
9329-11	New	Material Handler
9329-12	New	Stacker
<b>9331</b>		<b>HAND OR PEDAL VEHICLE DRIVERS</b>
9331-01	93311	Rickshaw Puller
9331-02	93311	Pedal Vehicle Driver
<b>9332</b>		<b>ANIMAL-DRAWN MACHINERY AND VEHICLE DRIVERS</b>
9332-01	93321	Driver, Animal-Drawn Vehicle
9332-02	93322	Driver, Bullock-Cart
9332-03	93323	Driver, Animal Train
9332-04	New	Mahout
9332-05	New	Driver, Animal-Drawn Machinery
<b>9333</b>		<b>TRANSPORT AND STORAGE LABOURERS</b>
9333-01	New	Freight Worker
9333-02	93331	Docker
9333-03	72336	Worker, Shipyard
9333-04	93331	Stevedore
9333-05	93332	Handler, Cargo Freight Product
9333-06	93333	Loader, Railway and Road Vehicle
9333-07	93334	Loader, Aircraft
9333-08	93335	Loader, Boat (Liquid and Gases)
9333-09	93336	Porter, Warehouse
9333-10	93337	Handler, Material
9333-11	93339	Furniture Mover
9333-12	93339	Loader Worker
9333-13	93351	Attendant, Store
9333-14	93352	Operator, Store
9333-15	93353	Worker, Store
9333-16	93354	Worker, Warehouse

MASCO 2013	MASCO 2008	JOB TITLE
<b>9334</b>		<b>SHELF FILLERS</b>
9334-01	93341	Shelf Filler
9334-02	43212	Stock Filler
9334-03	43212	Stock Handler
<b>9411</b>		<b>FAST FOOD PREPARERS</b>
9411-01	94111	Fast Food Preparer
9411-02	New	Fast Food Cook
9411-03	New	Short Order Cook
<b>9412</b>		<b>KITCHEN HELPERS</b>
9412-01	94121	Kitchen Helper
9412-02	91123	Hand Dish Washer
9412-03	New	Kitchen Assistant
9412-04	New	Kitchen Porter
9412-05	New	Pantry Attendant
<b>9511</b>		<b>STREET AND RELATED SERVICE WORKERS</b>
9511-01	New	Street Car Washer
9511-02	New	Errand Boy
9511-03	New	Shoe-Polisher
9511-04	New	Car Window Washer
9511-05	New	Car Guard
9511-06	New	Leaflet Distributor
9511-07	New	Free Newspaper Distributor
<b>9521</b>		<b>STREET VENDORS (EXCLUDING FOOD)</b>
9521-01	95201	Newspaper Vendor
9521-02	95202	Pedlar
9521-03	New	Hawker
<b>9611</b>		<b>REFUSE COLLECTORS</b>
9611-01	96111	Worker, Refuse Disposal
9611-02	96113	Scrap Handler
9611-03	96119	Collector, Rubbish
9611-04	New	Collector, Recycling
9611-05	New	Dustman/woman
<b>9612</b>		<b>REFUSE AND RECYCLABLE WASTE SORTERS</b>
9612-01	96121	Rubbish Sorter
9612-02	New	Recycling Worker
9612-03	New	Scrap Merchant
9612-04	New	Refuse Sorter
9612-05	New	Waste Picker
9612-06	96299	Collector, Old Metal
9612-07	96299	Collector, Old Newspaper
9612-08	New	Collector, Scrap
<b>9613</b>		<b>SWEEPERS AND RELATED LABOURERS</b>
9613-01	96131	Sweeper, Road
9613-02	96132	Sweeper, Park
9613-03	96132	Sweeper, Floor
9613-04	96133	Labourer, Odd-Job
9613-05	96134	Cleaning Worker, Blowing Machine
9613-06	96135	Cleaning Worker, Vacuuming Machine
9613-07	New	Sweeper, Street
<b>9621</b>		<b>MESSENGERS, PACKAGE DELIVERERS AND LUGGAGE PORTERS</b>
9621-01	96217	General Office Assistant, Grade N1
9621-02	33437	Sergeant-at-arms, Grade N11

MASCO 2013	MASCO 2008	JOB TITLE
9621-03	96218	General Assistant (Notice Boy), Grade 1
9621-04	44126	Notice Boy, Grade N3
9621-05	MIDA	General Assistant (Support), Grade 1
9621-06	SPAD	General Assistant, Grade L3
9621-07	96211	Messenger, Courier
9621-08	96212	Porter, Luggage
9621-09	96213	Office Boy
9621-10	96213	Document Searcher
9621-11	96214	Newspaper Deliverer
9621-12	96215	Caddie
9621-13	96216	Assistant, Delivery
9621-14	96219	Bill Poster
9621-15	New	Document Courier
9621-16	83506	Goods Carrier
9621-17	91121	Room Boy
9621-18	91122	Porter
9621-19	New	Messenger
9621-20	New	Post-runner
9621-21	96299	Trolley Boy
<b>9622</b>		<b>ODD-JOB PERSONS</b>
9622-01	96291	General Worker, Grade R1
9622-02	96292	Specialised General Worker, Grade R3
9622-03	96299	General Worker (General Services), Grade 1
9622-04	96221	Odd-Job Person
9622-05	96299	General Worker
9622-06	96222	Handyperson
<b>9623</b>		<b>METER READERS AND VENDING-MACHINE COLLECTORS</b>
9623-01	96231	Meter Reader
9623-02	96232	Money Collector, Vending Machine
<b>9624</b>		<b>WATER AND FIREWOOD COLLECTORS</b>
9624-01	96241	Firewood Collector
9624-02	96242	Water Carrier
<b>9625</b>		<b>ATTENDANTS</b>
9625-01	53218	Health Assistant, Grade U3
9625-02	New	Attendant
9625-03	96251	Attendant, Laboratory
9625-04	96252	Attendant, Hospital
9625-05	96252	Attendant, Veterinary
9625-06	96253	Attendant, Parking
9625-07	96254	Attendant, Lift
9625-08	96255	Attendant, Recreational Amusement Park
9625-09	96255	Attendant, Funfair
9625-10	96256	Attendant, Room
9625-11	96256	Attendant, Restroom
9625-12	96256	Attendant, Laundry
9625-13	96256	Attendant, Lavatory
9625-14	96257	Attendant, Bowling Alley
9625-15	96257	Attendant, Snooker
9625-16	96257	Attendant, Sports
9625-17	96258	Attendant, Crane
9625-18	96258	Attendant, Vehicle
9625-19	96258	Attendant, Ramp
9625-20	96259	Attendant, Jetty
9625-21	96259	Attendant, Public Area
9625-22	96259	Attendant, Machine
9625-23	96259	Attendant, Maintenance



MASCO 2013	MASCO 2008	JOB TITLE
9625-24	New	Attendant, Fairground
9625-25	54147	Collector, Ticket
<b>9629</b>		<b>ELEMENTARY WORKERS NOT ELSEWHERE CLASSIFIED</b>
9629-01	43236	Jetty Supervisor, Grade N3
9629-02	96293	Unskilled Labourer
9629-03	96295	Worker, Inflatable
<b>0</b>		<b>ARMED FORCES</b>
<b>0111</b>		<b>PROFESSIONAL DUTY OFFICERS (MA)</b>
0111-01	New	Medical Officer
0111-02	New	Dental officer
0111-03	New	Pharmacy Officer
<b>0121</b>		<b>GENERAL DUTY OFFICERS (MA)</b>
0121-01	New	Royal Malay Regiment Officer
0121-02	New	Royal Ranger Regiment Officer
0121-03	New	Royal Armoured Corps Officer
0121-04	New	Royal Signals Regiment Officer
0121-05	New	Royal Engineer Regiment Officer
0121-06	New	Royal Artillery Regiment Officer
0121-07	New	General Services Corps Officer
0121-08	New	Royal Medical Corps Officer
0121-09	New	Royal Military Police Corps Officer
0121-10	New	Royal Intelligence Corps Officer
0121-11	New	Royal Logistics Corps Officer
0121-12	New	Royal Ordnance Corps Officer
0121-13	New	Royal Electrical and Mechanical Engineer Corps Officer
0121-14	New	Armed Forces Religious Corps Officer
0121-15	New	Territorial Army Regiment Officer
0121-16	New	Border Regiment Officer
<b>0131</b>		<b>PERSONNEL OF OTHER RANKS (MA)</b>
0131-01	New	Member of Royal Malay Regiment
0131-02	New	Member of Royal Ranger Regiment
0131-03	New	Member of Royal Armoured Corps
0131-04	New	Member of Royal Signals Regiment
0131-05	New	Member of Royal Engineer Regiment
0131-06	New	Member of Royal Artillery Regiment
0131-07	New	Member of General Services Corps
0131-08	New	Member of Royal Medical Corps
0131-09	New	Member of Royal Military Police Corps
0131-10	New	Member of Royal Intelligence Corps
0131-11	New	Member of Royal Logistics Corps
0131-12	New	Member of Royal Ordnance Corps
0131-13	New	Member of Royal Electrical and Mechanical Engineer Corps
0131-14	New	Member of Armed Forces Religious Corps
0131-15	New	Member of Territorial Army Regiment
0131-16	New	Member of Border Regiment
<b>0211</b>		<b>GENERAL DUTY OFFICERS (RMN)</b>
0211-01	New	Executive Officer
0211-02	New	Technical Officer
0211-03	New	Supply Officer
<b>0221</b>		<b>PERSONNEL OF OTHER RANKS (RMN)</b>
0221-01	New	Member of Surface Warfare
0221-02	New	Member of Submarine Warfare (Sonar)
0221-03	New	Member of Submarine Warfare (Control)

MASCO 2013	MASCO 2008	JOB TITLE
0221-04	New	Member of Warfare Tactical Plotters
0221-05	New	Member of Naval Provost
0221-06	New	Diver
0221-07	New	Member of Hydrography
0221-08	New	Member of Communications
0221-09	New	Member of Physical Trainers
0221-10	New	Member of Administration and Finance
0221-11	New	Member of Logistics Technicians
0221-12	New	Member of Navy Cooks
0221-13	New	Member of Officers' Mess Personnel
0221-14	New	Member of the Brass Band
0221-15	New	Member of Propulsion Marine Technicians
0221-16	New	Member of Power and Ordinance Electrical Technicians
0221-17	New	Member of Electrical and Radio Technicians
<b>0311</b>		<b>GENERAL DUTY OFFICERS (RMAF)</b>
0311-01	New	General Duty Pilot Branch Officer
0311-02	New	Navigation Branch Officer
0311-03	New	Engineering Branch Officer
0311-04	New	Secretariat Branch Officer
0311-05	New	Material Branch Officer
0311-06	New	Air Traffic Control Branch Officer
0311-07	New	Air Defence Control Branch Officer
0311-08	New	Fire Brigade Branch Officer
0311-09	New	Flight Engineer Branch Officer
0311-10	New	Weapon Sensor Branch Officer
<b>0321</b>		<b>PERSONNEL OF OTHER RANKS (RMAF)</b>
0321-01	New	Stewardess
0321-02	New	Airframe Technician
0321-03	New	Avionics Technician
0321-04	New	Instrument Technician
0321-05	New	Weapon Technician
0321-06	New	Electrical Technician
0321-07	New	Engine Technician
0321-08	New	Statistical Assistant
0321-09	New	Aviation Support Equipment Technician
0321-10	New	Air Defence Technician
0321-11	New	Air Traffic Control Assistant
0321-12	New	Fire Brigade
0321-13	New	Administrative Assistant
0321-14	New	Catering Assistant
0321-15	New	Brass Band
0321-16	New	Provost
0321-17	New	Physical Trainer
0321-18	New	Logistics Technician
0321-19	New	Cataloguer
0321-20	New	Logistics System Technician
0321-21	New	Driver



# INDEX

**Occupations According to  
Alphabetical Order**

# INDEX - Alphabetical Order

MASCO 2013	MASCO 2008	JOB TITLE
<b>A</b>		
2166-32	New	2D Animator
2166-33	New	3D Artist
2251-07	22503	Abattoir Veterinarian
8351-17	New	Able Seaman
2522-22	New	Access Administration Analyst
1411-14	New	Accommodation Manager
2411-21	24116	Account Executive
1211-02	12111	Account Manager
2411-27	New	Account Payable Executive
2411-26	New	Account Receivable Executive
2411-10	24111	Accountant
1112-10	New	Accountant General
2411-01	24112	Accountant, Grade W41
3313-01	43116	Accounting Assistant, Grade W17
4311-13	43112	Accounting Machine Clerk
4311-10	43112	Accounts and Promotion Clerk
4311-07	43112	Accounts Clerk
4311-08	43112	Accounts Payable Clerk
4311-09	43112	Accounts Receivable Clerk
3313-06	33411	Accounts Supervisor
3134-05	31344	Acetylene Plant Operator
8131-23	81314	Acid Plant Operator
2847-01	26571	Acrobat
2845-01	26551	Actor
3314-03	43128	Actuarial Assistant
4312-17	43115	Actuarial Clerk
2121-01	21202	Actuarial Officer, Grade W41
3255-03	New	Acupressure Therapist
2231-03	32305	Acupuncturist
2825-06	New	Addiction Counsellor
2842-04	26522	Adiguru - Ancient Malay Dance-Theatre
2842-05	26522	Adiguru - Shadow Puppet Theatre
7613-01	75231	Adjuster, Wood Machine
4312-22	43115	Adjustment Clerk
2425-18	New	Administration Executive Officer
4311-14	43112	Administrative and Accounting Clerk
2422-01	24253	Administrative and Diplomatic Officer, Grade M41
4111-18	41101	Administrative Assistant
0321-13	New	Administrative Assistant
4311-01	43111	Administrative Assistant (Accounting), Grade 21
3712-01	43119	Administrative Assistant (Appraisal), Grade 21
3313-03	43117	Administrative Assistant (Audit), Grade 21
4111-04	New	Administrative Assistant (Clerical), Grade 21
3511-02	New	Administrative Assistant (Computer Operator), Grade 21
3511-03	35115	Administrative Assistant (Computer Technician), Grade 21
4225-01	42228	Administrative Assistant (Customer Service), Grade 21
4111-03	41109	Administrative Assistant (Designer), Grade 21
4111-05	New	Administrative Assistant (Engineering), Grade 21
4312-01	43118	Administrative Assistant (Finance), Grade W17
3411-01	44195	Administrative Assistant (Legal), Grade L17
4411-01	44116	Administrative Assistant (Library), Grade 21
3631-02	New	Administrative Assistant (Photographer), Grade 21
4121-07	41205	Administrative Assistant (Secretarial)
4121-04	New	Administrative Assistant (Secretarial), Grade 21
5414-03	54148	Administrative Assistant (Security), Grade 21
4111-01	41103	Administrative Assistant (Clerical/ Operation), Grade N17

MASCO 2013	MASCO 2008	JOB TITLE
4111-11	41101	Administrative Clerk
2425-15	24251	Administrative Executive
3343-05	New	Administrative Executive Assistant
1215-01	12151	Administrative Manager
2425-17	New	Administrative Officer
2425-01	24256	Administrative Officer, Grade N41
3343-17	New	Administrative Secretary
1215-02	New	Administrative Service Manager
3341-05	33411	Administrative Supervisor
1121-25	New	Administrator
2521-06	25213	Administrator, Electronic Data Processing (PDE)
4121-14	41203	Admission Secretary
2241-02	New	Advanced Care Paramedic
2431-01	24311	Advertising Account Executive
3632-07	34321	Advertising Illustrator
1222-01	12221	Advertising Manager
5241-02	52412	Advertising Model
2611-27	26111	Advocate
2611-07	26117	Advocate, Grade L41
3631-08	34314	Aerial Photographer
2165-17	21658	Aerial Surveyor
2847-07	26575	Aerialist Trapeze Performer
3622-09	34223	Aerobics Coach
3623-09	New	Aerobics Instructor
2111-03	21112	Aerodynamicist
3111-24	New	Aerological Technician
2144-36	New	Aero-Material Component Engineer
3115-14	31151	Aeronautical (Mechanical) and Equipment Engineering Assistant
2171-10	21737	Aeronautical Engineer
3115-04	31151	Aeronautical Engineering Technician
3115-29	New	Aeronautics Engineering Technician
3115-03	31151	Aerospace (Mechanical) Engineering Technician
3522-01	35221	Aerospace Engineering Technician (Telecommunications)
5142-06	51425	Aesthetician
3322-02	33222	After Sales Service Adviser
1613-02	New	Aged Care Home Director
1613-01	13431	Aged Care Service Manager
2132-12	21321	Agricultural Adviser
3142-01	31427	Agricultural Assistant, Grade G17
2144-29	21449	Agricultural Engineer
3719-09	New	Agricultural Inspector
1311-06	13112	Agricultural Manager
2132-09	21321	Agricultural Officer
2132-03	21325	Agricultural Officer, Grade G41
2133-04	21332	Agricultural Scientist
2426-08	New	Agriculture Biotech Researcher
2426-06	New	Agro-Based Biotech Food Researcher
3139-09	New	Agro-Based Food Biotech Research Technician
2112-09	21125	Agrometeorologist
2133-02	21331	Agronomist
3142-04	31421	Agronomy Technician
2179-04	21743	Air Cargo Officer
0311-07	New	Air Defence Control Branch Officer
0321-10	New	Air Defence Technician
2143-03	New	Air Pollution Control Engineer
0321-11	New	Air Traffic Control Assistant
3151-01	43238	Air Traffic Control Assistant, Grade A17
0311-06	New	Air Traffic Control Branch Officer
2174-01	21742	Air Traffic Control Officer, Grade A41
2174-03	21741	Air Traffic Controller
3151-02	31511	Air Traffic Safety Technician
4323-15	43234	Air Transport Operations Clerk
7127-03	71271	Air-Conditioning Equipment Mechanic

MASCO 2013	MASCO 2008	JOB TITLE
2171-09	21737	Aircraft Design Engineer
7232-02	New	Aircraft Engine Fitter
7232-01	72321	Aircraft Engine Mechanic
2171-08	21737	Aircraft Engineer
2173-02	JPA	Aircraft Examiner, Grade A41
7232-03	New	Aircraft Maintenance Mechanic
7232-05	New	Aircraft Maintenance Mechanic (Airframe)
7232-06	New	Aircraft Maintenance Mechanic (Engine)
3151-06	New	Aircraft Maintenance Technician (Airframes)
3151-07	New	Aircraft Maintenance Technician (Engines)
7232-07	New	Aircraft Mechanic
3151-08	New	Aircraft Restorer
3151-05	New	Aircraft Service Technician
3151-03	New	Aircraft Technician
7232-08	New	Airframe and Power Plant Mechanic
3151-09	New	Airframe and Power Plant Technician
7232-09	New	Airframe Mechanic
3151-10	New	Airframe Technician
0321-02	New	Airframe Technician
4221-07	42212	Airline Travel Clerk
5111-07	51117	Airport Attendant
1121-09	11201	Airport Manager
2145-13	21456	Alcohol Technologist
6221-05	New	Algae Cultivator
5311-02	53115	Amah
9111-01	91111	Amah
1112-27	11123	Ambassador
3258-01	32581	Ambulance Assistant
3258-02	New	Ambulance Officer
3258-03	New	Ambulance Paramedic
2212-04	22122	Anaesthetist
2514-16	New	Analogue Integrated Circuit (IC) Design Verification Engineer
2152-36	New	Analogue Integrated Circuit (IC) Designer
2511-58	New	Analogue Integrated Circuit (IC) Designer (IT)
2141-26	New	Analogue Integrated Circuit (IC) Package Design Engineer
2514-08	25145	Analyst Programmer
2134-01	21341	Anatomist
3212-02	32121	Anatomy Technician
6222-07	62225	Anchorman
2131-68	New	Animal Behaviourist
5164-02	51642	Animal Caretaker
5419-15	New	Animal Control Officer
2265-07	22652	Animal Nutritionist
2133-17	21335	Animal Scientist
1511-15	New	Animation Director
2844-03	New	Animation Producer
2514-27	New	Animation Programmer
2166-10	New	Animator
8121-21	81215	Annealer, Metal
2113-41	New	Anodising Specialist
4223-08	New	Answering Service Operator
2822-04	26322	Anthropologist
3411-02	44194	Anti-Drug Assistant, Grade S17
2919-07	26194	Anti-Drug Officer, Grade S41
6123-01	New	Apiarist
2619-13	26198	Appeals Referee, Social Security Claims
2519-09	New	Application Assurance Engineer (IT)
2512-06	New	Application Developer (.Net)
1511-08	New	Application Development Manager
2512-07	New	Application Engineer (.Net)
2514-09	25145	Application Programmer
2519-10	New	Application Security Engineer (IT)
2511-35	New	Application Specialist Support (Navision)



MASCO 2013	MASCO 2008	JOB TITLE
4222-02	42221	Appointment Clerk
2912-03	24218	Appraisal Executive Officer
3315-02	33151	Appraiser
2145-27	New	Aqua Research and Development Nutritionist
3139-10	New	Aquaculture Biotech Research Technician
2426-07	New	Aquaculture Biotech Researcher
1312-03	New	Aquaculture Operation Manager
3143-03	31431	Arboriculture Technician
2133-10	21334	Arboriculturist
2822-05	26323	Archaeologist
2161-03	21614	Architect
2161-01	21611	Architect, Grade J41
3633-01	44197	Archive Assistant, Grade S17
1624-03	New	Archive Manager
2811-01	26214	Archive Officer, Grade S41
2811-05	26211	Archivist
3122-13	New	Area Coordinator, Manufacturing
3322-21	33227	Area Support Sales Engineer
0121-14	New	Armed Forces Religious Corps Officer
3632-11	34322	Armorial Designer
2811-08	26213	Art Gallery Curator
5113-03	51132	Art Gallery Guide
1624-05	New	Art Gallery Manager
3141-08	31414	Artificial Breeding Research Laboratory Assistant
3141-07	31414	Artificial Breeding Technician
3241-07	New	Artificial Inseminator
2514-15	New	Artificial Intelligence Programmer
2841-05	26515	Artist
5241-03	52413	Artist's Model
2146-16	21462	Assayer
8211-02	New	Assembler
8211-16	82118	Assembler, Agricultural Machinery
8211-06	82111	Assembler, Aircraft
8211-23	New	Assembler, Aircraft
8212-13	82128	Assembler, Audio-Visual Equipment
8211-05	82111	Assembler, Automobile
8212-05	82124	Assembler, Battery
8219-05	82112	Assembler, Bicycle
8212-09	82126	Assembler, Chronometer
8212-07	82126	Assembler, Clock
8219-03	82199	Assembler, Composite Products
8219-06	New	Assembler, Door
8211-10	82115	Assembler, Earth-Moving Equipment
8212-02	82121	Assembler, Electrical Equipment
8212-06	82125	Assembler, Electric-sign
8212-03	82122	Assembler, Electronic Equipment
8211-21	New	Assembler, Engine
8211-04	82111	Assembler, Engine Marine
8219-07	New	Assembler, Eyeglass Frame
8211-20	New	Assembler, Gearbox
8212-11	82127	Assembler, Hearing Aid
8211-14	82117	Assembler, Industrial Machinery
8219-09	New	Assembler, Jewellery
8219-10	New	Assembler, Knife
8213-01	82131	Assembler, Leather Products
8211-11	82115	Assembler, Machine Tool
8213-02	82132	Assembler, Metal Products
8212-12	82127	Assembler, Microelectronic Equipment
8211-09	82115	Assembler, Mining Machinery
8211-19	82111	Assembler, Motorcycle
8212-10	82126	Assembler, Office Machinery
8219-12	New	Assembler, Paperboard Products
8219-13	New	Assembler, Pen and Pencil

MASCO 2013	MASCO 2008	JOB TITLE
8213-04	82134	Assembler, Plastic Products
8213-05	New	Assembler, Plastic Toy
8212-14	82129	Assembler, Precision Instrument
8211-12	82116	Assembler, Printing Machinery
8211-07	82113	Assembler, Refrigeration and Air-Conditioning Equipment
8213-03	82133	Assembler, Rubber Products
8212-04	82123	Assembler, Semi-Conductor
8211-08	82114	Assembler, Sewing Machine
8219-14	New	Assembler, Sun-Blinds
8212-15	New	Assembler, Telephone
8212-16	New	Assembler, Television
8211-13	82116	Assembler, Textile Machinery
8219-04	82199	Assembler, Textile Products
8219-15	New	Assembler, Thermos Bottle
8211-24	New	Assembler, Turbine
8213-06	New	Assembler, Umbrella
8211-22	New	Assembler, Vehicle
8212-08	82126	Assembler, Watch
8152-08	81524	Assembler, Weaving Machine
8219-02	82198	Assembler, Wood Products
8211-15	82118	Assembler, Wood Working Machinery
2824-04	34129	Assistant Executive Officer (Psychology), Grade 31
1311-10	14316	Assistant Park / Estate Manager, Grade G27
2911-02	24412	Assistant Superintendent of Immigration / Superintendent of Immigration, Grade KP27
2411-28	33135	Assistant Account Executive Officer
2411-29	33131	Assistant Account Officer
2411-03	33134	Assistant Accountant, Grade W27
2425-20	New	Assistant Administration Executive Officer
2425-05	33416	Assistant Administrative Officer, Grade N27
2132-06	31426	Assistant Agricultural Officer, Grade G27
2174-02	31512	Assistant Air Traffic Control Officer, Grade A29
2173-03	New	Assistant Aircraft Examiner, Grade A29
2919-14	34114	Assistant Anti-Drug Officer, Grade S27
2161-02	31126	Assistant Architectural Officer, Grade J29
2811-03	34331	Assistant Archive Officer, Grade S27
2411-38	33136	Assistant Audit Executive Officer
2411-32	33132	Assistant Auditor, Grade W27
2149-05	New	Assistant Building Surveyor, Grade J29
7639-01	81324	Assistant Camera Operator, Grade N11
2145-05	31165	Assistant Chemical Engineer, Grade J29
2916-02	33567	Assistant Civil Defence Officer, Grade KP27
2825-02	34122	Assistant Community Development Officer, Grade S27
2511-13	35122	Assistant Computer System Analyst
2132-07	31432	Assistant Conservator of Forest, Grade G27
2811-04	34332	Assistant Curator, Grade S27
8332-02	83321	Assistant Driver, Lorry
2821-02	34127	Assistant Economic Affairs Officer, Grade E27
2914-02	33594	Assistant Enforcement Officer, Grade N27
2142-41	New	Assistant Engineer
2142-05	31127	Assistant Engineer (Civil), Grade J29
2151-02	31137	Assistant Engineer (Electrical), Grade J29
2152-02	31145	Assistant Engineer (Electronics), Grade J29
2144-02	31158	Assistant Engineer (Mechanical), Grade J29
2142-04	31199	Assistant Engineer, Grade J29
2133-25	32574	Assistant Environmental Control Officer, Grade C27
2263-01	32572	Assistant Environmental Health Officer/ Environmental Health Officer, Grade U29
2411-04	33138	Assistant Executive Officer (Accounting), Grade 31
2411-06	MIDA	Assistant Executive Officer (Accounting), Grade 6
2411-08	SPAD	Assistant Executive Officer (Accounting), Grade L8
2425-04	33413	Assistant Executive Officer (Administration), Grade 31
2425-10	SPAD	Assistant Executive Officer (Administration), Grade L8
2912-02	33156	Assistant Executive Officer (Appraisal), Grade 31
2411-33	33137	Assistant Executive Officer (Audit), Grade 31

MASCO 2013	MASCO 2008	JOB TITLE
2411-34	New	Assistant Executive Officer (Audit), Grade 6
2411-41	SPAD	Assistant Executive Officer (Audit), Grade L8
2821-04	MIDA	Assistant Executive Officer (Economics), Grade 6
2914-04	SPAD	Assistant Executive Officer (Enforcement), Grade L8
2142-06	31128	Assistant Executive Officer (Engineering), Grade 31
2142-09	SPAD	Assistant Executive Officer (Engineering), Grade L8
2412-04	SPAD	Assistant Executive Officer (Finance), Grade L8
2522-04	35116	Assistant Executive Officer (Information Technology), Grade 31
2522-06	MIDA	Assistant Executive Officer (Information Technology), Grade 6
2522-08	SPAD	Assistant Executive Officer (Information Technology), Grade L8
2611-12	34117	Assistant Executive Officer (Legal), Grade 31
2611-14	MIDA	Assistant Executive Officer (Legal), Grade 6
2611-16	SPAD	Assistant Executive Officer (Legal), Grade L8
2812-04	34336	Assistant Executive Officer (Library), Grade 31
2812-06	MIDA	Assistant Executive Officer (Library), Grade 6
3343-01	33438	Assistant Executive Officer (Secretarial), Grade 31
3343-02	MIDA	Assistant Executive Officer (Secretarial), Grade 6
3343-03	SPAD	Assistant Executive Officer (Secretarial), Grade L8
2919-16	33596	Assistant Executive Officer (Security), Grade 31
2142-08	SPAD	Assistant Executive Officer (Technician), Grade L8
2149-07	32576	Assistant Factory and Machinery Inspector, Grade J29
2113-04	35215	Assistant Film Laboratory Officer, C27
2412-02	New	Assistant Finance Officer, Grade W27
2919-13	33597	Assistant Fire Superintendent, Grade KB29
2132-08	31441	Assistant Fisheries Officer, Grade G27
3641-01	34491	Assistant Food Preparation Officer, Grade C27
2113-03	31112	Assistant Food Technology Officer, Grade C27
2114-04	31115	Assistant Geochemistry Officer, Grade C27
2311-07	23413	Assistant Higher Learning Education Service Officer, Grade DGA29
1411-05	14392	Assistant Hostel Manager, Grade N27
2919-15	34126	Assistant Industrial Relations Officer, Grade S27
2432-02	34124	Assistant Information Officer, Grade S27
2522-24	35121	Assistant Information Technology Officer
2522-03	35123	Assistant Information Technology Officer, Grade F29
2919-06	JPA	Assistant Investigation Officer/Investigation Officer, Grade P29
2826-02	34113	Assistant Islamic Affairs Officer, Grade S27
2399-04	33564	Assistant Kesatria Officer, Grade S27
2425-09	33415	Assistant Land Administrative Officer (Sabah), Grade NT27
2425-06	New	Assistant Land Administrative Officer, Grade N27
2425-08	33415	Assistant Land Officer (Sarawak), Grade NT27
2132-05	31428	Assistant Land Planning Officer, Grade G27
2162-02	31184	Assistant Landscape Architect, Grade J29
2919-18	26437	Assistant Language Planning Officer, Grade S27
2611-10	New	Assistant Legal Officer, Grade L29
2812-03	34333	Assistant Librarian, Grade S27
2812-07	34335	Assistant Library Executive
2172-02	31524	Assistant Marine Officer, Grade A29
2211-03	32126	Assistant Medical Officer, Grade U29
2112-02	New	Assistant Meteorological Officer, Grade C27
2114-05	31175	Assistant Mineral Officer, Grade C27
3221-02	New	Assistant Nurse
2262-08	53213	Assistant Pharmacist
2262-02	JPA	Assistant Pharmacy Officer, Grade U29
2919-12	33593	Assistant Prison Superintendent, Grade KX27
2824-03	34123	Assistant Psychology Officer, Grade S27
2832-04	34334	Assistant Publications Officer, Grade N27
2149-04	31191	Assistant Quantity Surveyor, Grade J29
2919-05	24497	Assistant Registration Officer/Registration Officer, Grade KP27
2426-03	31418	Assistant Research Officer, Grade Q27
2426-05	31601	Assistant Scientific Officer, Grade C27
3343-16	33439	Assistant Secretarial Executive Officer
2919-11	33598	Assistant Security Officer, Grade KP27
2611-11	34112	Assistant Shariah Officer, Grade LS27

MASCO 2013	MASCO 2008	JOB TITLE
2822-02	34125	Assistant Social Research Officer, Grade N27
2121-03	33141	Assistant Statistics Officer, Grade E27
2911-03	33513	Assistant Superintendent of Customs, Grade W27
3511-11	35111	Assistant Supervisor, Electronic Data Processing (EDP)
2165-03	New	Assistant Surveyor, Grade J29
2399-02	23807	Assistant Training Officer, Grade E27
2164-02	31185	Assistant Urban and Rural Planning Officer, Grade J29
2421-02	33154	Assistant Valuation Officer, Grade W27
2251-02	32404	Assistant Veterinary Officer, Grade G27
2131-02	31417	Assistant Wildlife Officer, Grade G27
3622-02	34128	Assistant Youth and Sports Officer, Grade S27
3411-13	44199	Assistant, Barrister
8331-04	83313	Assistant, Bus Driver
9621-13	96216	Assistant, Delivery
2611-30	New	Assistant, Legal
4412-03	44122	Assistant, Mail Dispatch
8351-09	83503	Assistant, Shipping
3411-14	44199	Assistant, Solicitor
5161-01	51611	Astrologer
2111-29	21735	Astronaut
2111-23	21117	Astronomer
2111-24	21117	Astronomer, Radio
3111-21	31119	Astronomy Technician
2111-22	21117	Astrophysicist
3621-02	34212	Athlete
9625-02	New	Attendant
9625-14	96257	Attendant, Bowling Alley
9625-17	96258	Attendant, Crane
5163-05	51633	Attendant, Crematorium
8161-10	81602	Attendant, Dairy Product Churning
9625-24	New	Attendant, Fairground
8161-61	81607	Attendant, Filtration
8161-19	81603	Attendant, Foodgrain Milling
9625-09	96255	Attendant, Funfair
9625-04	96252	Attendant, Hospital
9625-20	96259	Attendant, Jetty
9625-03	96251	Attendant, Laboratory
9625-12	96256	Attendant, Laundry
9625-13	96256	Attendant, Lavatory
9625-07	96254	Attendant, Lift
9625-22	96259	Attendant, Machine
9625-23	96259	Attendant, Maintenance
5163-01	51631	Attendant, Mortuary
8161-41	81605	Attendant, Oil Palm Sterilising
9625-06	96253	Attendant, Parking
8161-60	81607	Attendant, Pasteuriser (Brewery)
9625-21	96259	Attendant, Public Area
9625-19	96258	Attendant, Ramp
9625-08	96255	Attendant, Recreational Amusement Park
9625-11	96256	Attendant, Restroom
9625-10	96256	Attendant, Room
8141-18	93223	Attendant, Rubber Smokehouse
9625-15	96257	Attendant, Snooker
9625-16	96257	Attendant, Sports
9333-13	93351	Attendant, Store
8113-08	81123	Attendant, Trommel
9625-18	96258	Attendant, Vehicle
9625-05	96252	Attendant, Veterinary
1112-04	New	Attorney General
4311-12	43112	Auction Clerk
3339-01	33151	Auctioneer
2152-16	21524	Audio and Video Equipment Engineer
3521-13	35216	Audio and Video Equipment Technician

MASCO 2013	MASCO 2008	JOB TITLE
4131-05	41311	Audio Typist
4214-10	42145	Audio Visual Equipment Rental Clerk
1511-16	New	Audio Visual Manager
2266-01	22661	Audiologist
3521-03	35211	Audio-Visual Operator
2391-07	23915	Audio-Visual Teaching Specialist
3521-01	35216	Audio-Visual Technician, Grade N17
2411-37	24113	Audit and Risk Assessment Executive
1211-05	12117	Audit and Risk Management Manager
3313-02	43114	Audit Assistant, Grade W17
4311-15	43115	Audit Clerk
2411-36	24113	Audit Executive
1211-04	12117	Audit Manager
2411-09	24113	Auditing Accountant
2411-35	24113	Auditor
1112-06	New	Auditor General
2411-30	24117	Auditor, Grade W41
2831-01	26411	Author
3113-12	31137	Auto Electrical Technician
3139-06	New	Automated Assembly Line Operator
2152-26	New	Automation Design Engineer
2141-01	21411	Automation Engineer
3115-15	31151	Automobile Engineering Assistant
3115-05	31151	Automobile Engineering Technician
7231-16	New	Automotive Brake System Service Mechanic
3154-04	New	Automotive Brake System Technician
7231-11	72318	Automotive Mechanic
3111-25	New	Avalanche Controller
3151-04	New	Aviation Maintenance Technician
0321-09	New	Aviation Support Equipment Technician
0321-03	New	Avionics Technician
2231-06	New	Ayurvedic Practitioner
<b>B</b>		
5311-04	53115	Babysitter
2131-56	21316	Bacteriologist
2131-62	21316	Bacteriologist, Agricultural
2131-65	21316	Bacteriologist, Dairy
2131-60	21316	Bacteriologist, Fishery
2131-58	21316	Bacteriologist, Food
2131-61	21316	Bacteriologist, Industrial
2131-63	21316	Bacteriologist, Medical
2131-59	21316	Bacteriologist, Molecular
2131-57	21316	Bacteriologist, Pharmaceutical
2131-64	21316	Bacteriologist, Soil
2131-66	21316	Bacteriologist, Veterinary
3141-13	32121	Bacteriology Technician
7319-01	73192	Badge Maker
3411-03	44192	Bailiff
7512-01	75121	Baker
7311-09	73116	Balancing Machine Maker
7311-17	73116	Balancing Machine Repairer
2111-04	21112	Ballistician
2842-14	26523	Band Conductor
2842-08	26522	Band Leader
2411-22	24119	Bank Accounting Analyst
4211-08	42118	Bank Assistant
4211-07	42117	Bank Clerk
2412-09	New	Bank Executive Officer
1616-04	New	Bank Manager
4211-02	42111	Bank Teller
2619-07	26196	Bankruptcy Officer

MASCO 2013	MASCO 2008	JOB TITLE
1412-02	14121	Bar Manager
3641-08	34343	Barbecue Chef
5141-03	51412	Barber
5132-04	New	Barista
7311-10	73117	Barometer Maker
2611-29	26111	Barrister
5132-01	51321	Bartender
5132-02	51322	Bartender Assistant
2113-37	New	Basin Modeller
7317-04	73174	Basket Maker
8112-11	New	Batching Plant Operator
7318-02	73182	Batik Painter
5419-16	New	Beach Patrolman/woman
5142-02	51421	Beautician
5142-01	51426	Beautician, Grade B11
5142-08	51428	Beauty and Health Therapist
3257-20	New	Beauty Salon Inspector
2134-35	New	Bee Cultivation Specialist
5151-11	91122	Bell Captain, Hotel and Lodging
9112-07	New	Bellboy
2825-07	New	Bereavement Counsellor
3152-02	31521	Berthing Master
4212-01	42121	Betting Counter Clerk
2812-10	26224	Bibliographer
7234-04	New	Bicycle Mechanic
7234-01	72341	Bicycle Repairer
3612-05	34134	Bilal
4214-02	42141	Bill Collector
9621-14	96219	Bill Poster
3623-02	34232	Billiard Instructor
4311-19	43117	Billing Clerk
2141-28	New	Bindery Specialist
2134-02	21342	Biochemist
2134-04	21342	Biochemist, Clinical
2134-03	21342	Biochemist, Enzymes
2134-05	21342	Biochemist, Proteins
2134-06	21342	Biochemist, Steroids
3141-14	32121	Biochemistry Technician
2145-25	New	Biodynamic Compost Expert
2134-33	New	Bio-Fermentation Specialist
2831-02	26411	Biographer
1511-24	New	Bioinformatics Manager
3141-01	31411	Biological Technician
2131-09	21311	Biologist
2131-11	21311	Biologist, Aquatic
2131-10	21311	Biologist, Fresh Water
2131-12	21311	Biologist, Marine
2149-16	New	Biomedical Engineer
2121-10	21205	Biometrician
2134-08	21343	Biophysicist
3212-04	32121	Biophysics Technician
2131-13	21311	Biotechnologist
5321-08	New	Birth Assistant (Clinic or Hospital)
5322-02	New	Birth Assistant (Home)
6115-03	61153	Black Pepper Farmer
7221-02	72211	Blacksmith
3135-04	New	Blast Furnace Operator
7632-01	New	Blaster
8131-25	81314	Bleach Operator, Chemical
8161-23	81603	Blender, Flour
3117-19	31177	Block Boring Technician
7322-03	73224	Block Printer
7112-06	New	Blocklayer



MASCO 2013	MASCO 2008	JOB TITLE
3212-03	32121	Blood Bank Technician
2152-31	New	Board Design Engineer
1411-07	14111	Boarding-House Manager
7115-07	71155	Boatbuilder, Wood
8351-16	83509	Boatswain
5414-07	54196	Bodyguard
3134-19	31227	Boiler Operator Supervisor
8182-03	81821	Boiler Operator, Ship
7213-05	72133	Boilermaker
8182-02	81822	Boilerman
2413-02	New	Bond Analyst
4312-27	43115	Bond Clerk
3231-07	New	Bonesetter
6113-06	61133	Bonsai Grower
2831-19	26415	Book Editor
7323-04	73234	Book Embosser
7323-05	73235	Book Finisher
3632-06	34321	Book Illustrator
7323-01	73231	Bookbinder
4221-04	42214	Booking Clerk
3313-05	43111	Book-Keeper
4311-05	43111	Book-Keeping Clerk
4311-04	43111	Book-Keeping Machine Clerk
4214-12	43128	Book-Loan Clerk
4212-02	42121	Bookmaker's Clerk
3711-03	33511	Border Inspector
0121-16	New	Border Regiment Officer
8113-10	New	Bore Sinker
7213-06	72133	Borer
8113-09	New	Boring Equipment Operator
7223-04	New	Boring Machine Operator
3141-05	31413	Botanical Assistant
3141-06	31413	Botanical Research Laboratory Assistant
3141-04	31413	Botanical Technician
2131-21	21312	Botanist
2131-27	21315	Botanist, Ecology
2131-22	21312	Botanist, Economics
2131-23	21312	Botanist, Histology
2131-24	21312	Botanist, Mycology
2131-26	21312	Botanist, Soil
2131-25	21312	Botanist, Taxonomy
9329-09	New	Bottle Sorter
3621-03	New	Boxer
7321-03	73215	Braille Plate Maker
8312-01	83121	Braker, Railway
1221-07	12212	Brand Manager
0321-15	New	Brass Band
7212-09	72134	Brazier
6121-02	61211	Breeder, Dairy
6129-05	New	Breeder, Fighting Cock
6121-10	New	Breeder, Horse
6121-01	61211	Breeder, Livestock
2145-14	21456	Brewing Technologist
7112-01	71121	Bricklayer
2145-23	New	Briquetting Plant Engineer
2153-11	New	Broadcast Engineer
3521-12	35216	Broadcast Technician
3521-20	New	Broadcasting Equipment Operator
3521-14	35216	Broadcasting Equipment Technician
4312-26	43115	Brokerage Assistant
4312-18	43115	Brokerage Clerk
4312-23	43115	Brokerage Clerk
7317-05	73177	Broom Maker

MASCO 2013	MASCO 2008	JOB TITLE
7317-08	73175	Brush Maker
1113-15	New	Buapak
9311-01	93111	Bucket Labourer
1411-09	14112	Budget Hotel Manager
1211-03	12111	Budget Manager
7612-03	75222	Builder, Bullock Cart
2161-05	21613	Building Architect
5153-02	51531	Building Caretaker
7119-08	New	Building Frame Worker
3112-15	33591	Building Inspector
3714-06	New	Building Permit (Licensing) Assistant
2914-07	New	Building Permit (Licensing) Officer
2149-02	21657	Building Surveyor, Grade J41
5112-01	51121	Bus Conductor
2431-09	New	Business Compliance Executive
2421-07	New	Business Consultant
2431-05	24315	Business Consultant
3322-15	33227	Business Development Executive
1214-06	12144	Business Development Manager
2431-04	24314	Business Efficiency Officer
3714-07	New	Business Permit (Licensing) Assistant
2914-08	New	Business Permit (Licensing) Officer
1214-03	12142	Business Service Development Manager
5211-06	52116	Butcher
5152-02	New	Butler
7513-03	New	Butter Maker
3323-03	33231	Buyer
3323-04	33231	Buyer, Production Purchasing
<b>C</b>		
2512-09	New	C/C++ Developer
2514-19	New	C/C++ Programmer
2512-10	New	C/C++ Software Engineer
2514-20	New	C++ Graphics Programmer
2511-15	New	C++ Software Analyst
5111-08	New	Cabin Crew
5112-06	51121	Cable Car Conductor
7413-07	74132	Cable Line Worker
3114-03	31191	CAD/CAM Technician
2165-15	21658	Cadastral Surveyor
9621-12	96215	Caddie
1412-03	14121	Café Manager
1412-05	14121	Cafe, Bar and Snack-Bar Manager
5246-02	New	Cafeteria Counter Attendant
4222-06	New	Call Centre Agent (Customer Service)
4222-04	42225	Call Centre Clerk
1222-08	New	Call Centre Manager
2432-18	New	Call Centre Officer
1222-09	New	Call Centre Operation Manager
4222-07	New	Call Centre Representative
5244-08	New	Call Centre Salesperson
3512-12	New	Call Centre Trainer
7639-02	96298	Camera/Driver Assistant, Grade N3
3521-21	New	Cameraman/woman (Motion Picture)
3521-22	New	Cameraman/Woman (Video)
5153-10	51522	Camp Supervisor
1621-16	14313	Camping Site Manager
1412-04	14121	Canteen Manager
3322-03	33223	Canvasser
7231-15	91226	Car Detailer
9511-05	New	Car Guard
8322-08	83225	Car Jockey

MASCO 2013	MASCO 2008	JOB TITLE
4214-08	42145	Car Rental Clerk
9511-04	New	Car Window Washer
1621-10	14313	Caravan Park Manager
8161-72	81607	Carbonation Man (Malt Liquor)
2113-38	New	Carbonisation Specialist
2212-05	22122	Cardiac Anaesthetist
2212-10	22126	Cardiologist
5322-01	New	Care Aide (Home)
2423-09	24233	Career Adviser
4321-37	43217	Cargo Clerk
3152-04	31523	Cargo Ship Traffic Supervisor
7115-03	71151	Carpenter
7115-04	71152	Carpenter, Construction
7115-09	71155	Carpenter, Ship
7115-11	71157	Carpenter, Stage and Studio
7115-12	71158	Carpenter, Table
7621-11	75315	Carpet Mender
7318-11	New	Carpet Weaver
2165-04	21651	Cartographer
2165-05	21651	Cartographer, Marine
2841-02	26512	Cartoonist
7113-07	71134	Carver, Stone
7612-18	75229	Carver, Wood
7113-09	71137	Carver-Setter, Monument
7613-04	New	Carving Machine Operator (Wood)
3632-21	34327	Carving Technician
2141-30	New	Carving Technologist
4211-03	42112	Cash Counter Clerk
5231-01	52301	Cashier
5231-12	52306	Cashier, Reservation Office
5231-03	52301	Cashier, Assistant
5231-05	52302	Cashier, Box Office
5231-09	52305	Cashier, Cafeteria
5231-16	52309	Cashier, Cash Desk
5231-15	52308	Cashier, Check-Out
5231-18	52309	Cashier, Currency Exchange
5231-17	52309	Cashier, Exchange Booth
5231-10	52305	Cashier, Food and Beverage
5231-02	52301	Cashier, Office of Supervisor
5231-21	New	Cashier, Park
5231-04	52301	Cashier, Parking
5231-07	52303	Cashier, Petrol Station
5231-13	52306	Cashier, Race Track
5231-11	52305	Cashier, Restaurant
5231-06	52303	Cashier, Store
5231-08	52304	Cashier, Theatre
4212-04	42123	Casino Clerk
1621-07	14313	Casino Manager
7314-04	73144	Caster, Pottery and Porcelain
2146-21	New	Casting Engineer
8122-10	81225	Casting Finisher
0321-19	New	Cataloguer
2812-14	26225	Cataloguer
0321-14	New	Catering Assistant
1412-06	14121	Catering Manager
2151-19	New	Cell Engineer
8131-15	81312	Cement Furnaceman
2141-21	21416	Cement Technologist
7114-07	71145	Cementer
7114-08	71145	Cementer, Petroleum and Gas Wells
3135-05	New	Central Control Caster
2841-08	New	Ceramic Artist
7316-04	73162	Ceramic Dipper

MASCO 2013	MASCO 2008	JOB TITLE
2141-20	21416	Ceramics Technologist
2411-24	New	Certified Accountant
1112-34	New	Chairman of Local Authority
1121-18	11202	Chairperson of Organisation
9112-01	91121	Chambermaid
1615-02	13452	Chancellor
9111-09	91115	Char Worker, Domestic
2166-24	New	Character Designer
6211-22	New	Charcoal Burner
7412-02	74124	Chargeman, Grade 11
7412-01	74122	Chargeman, Grade R17
4214-03	42142	Charity Collector
2411-16	24116	Chartered Accountant
6211-05	62111	Chaser
8322-05	83222	Chauffeur
6211-17	62113	Checker, Log
6111-16	31425	Checker, Plantation
5222-04	New	Checkout Supervisor
7513-01	75131	Cheese Maker
3641-07	34343	Chef
3641-02	34341	Chef de Cuisine
3641-05	34344	Chefs De Partie
2145-04	21451	Chemical Engineer
2145-12	21455	Chemical Engineer, Pharmaceutical
3116-10	31161	Chemical Engineering Assistant
3116-09	31164	Chemical Engineering Estimator
3116-01	31161	Chemical Engineering Technician
3116-05	31162	Chemical Engineering Technician (Petroleum)
2145-02	21451	Chemical Engineering Technologist
3133-02	31331	Chemical Plant Supervisor
2145-06	21451	Chemical Process Engineer
3116-02	31161	Chemical Process Engineering Technician
3133-01	New	Chemical Process Technician
2145-03	21451	Chemical Process Technologist
3133-04	New	Chemical-Filtering and Separating Equipment Operator
3133-03	New	Chemical-Heat-Treating Plant Operator
3133-05	New	Chemical-Still and Reactor Operator
2113-05	21131	Chemist
2113-15	21135	Chemist, Analysis
2134-07	21342	Chemist, Biological
2113-11	21133	Chemist, Corrosion
2113-28	21139	Chemist, Crystallography
2113-18	21137	Chemist, Detergent
2113-25	21137	Chemist, Dye
2113-22	21137	Chemist, Food
2113-09	21133	Chemist, Glass
2113-23	21137	Chemist, Industrial
2113-08	21133	Chemist, Inorganic
2113-19	21137	Chemist, Leather
2113-10	21133	Chemist, Metallurgy
2113-29	21139	Chemist, Nuclear
2113-07	21132	Chemist, Organic
2113-20	21137	Chemist, Paint
2113-24	21137	Chemist, Petroleum
2113-27	21139	Chemist, Pharmaceutical
2113-14	21134	Chemist, Physical
2113-12	21133	Chemist, Plastics
2113-13	21133	Chemist, Polymer
2113-21	21137	Chemist, Quality Control
2113-16	21135	Chemist, Research and Development
2113-06	21132	Chemist, Rubber
2113-26	21137	Chemist, Textile
2113-17	21136	Chemist, Water Purification

MASCO 2013	MASCO 2008	JOB TITLE
3111-12	31111	Chemistry Laboratory Assistant
3111-08	31111	Chemistry Technician
3623-03	34234	Chess Instructor
3621-08	New	Chess Player
1112-40	New	Chief Administrator Parliament
4111-15	41101	Chief Clerk
5121-03	51201	Chief Cook
1121-14	11202	Chief Executive of Organisation
1112-24	New	Chief Executive of Statutory Body
1121-01	11201	Chief Executive Officer
1112-36	New	Chief Executive Officer of Local Authority
1112-23	New	Chief Executive Officer of Statutory Body
1211-06	11201	Chief Financial Officer
3122-11	31226	Chief Hookman Supervisor
1511-09	New	Chief Information Officer
1511-02	New	Chief Information Technology Officer
1121-22	New	Chief Legal Officer
1111-06	11111	Chief Minister
1112-09	New	Chief of Defence Force
1121-02	11201	Chief Operating Officer
1112-02	11121	Chief Secretary to the Government
1112-18	New	Chief Statistician
2825-08	New	Child and Youth Counsellor
1611-01	13411	Child Care Centre Manager
5311-01	53111	Child Care Worker
6115-04	New	Chilli Farmer
7112-08	New	Chimney Builder
7133-03	New	Chimney Sweeper
3259-01	22643	Chiropractor
3134-07	31344	Chlorine Plant Operator
7512-04	75125	Chocolate Maker
6211-19	62113	Chokerman, Logging
2843-04	26532	Choreographer
1624-09	New	Cinema Manager
3521-10	35213	Cinema Projectionist
3521-02	35211	Cinematographer
2847-09	26575	Circus Performer, Animal
3716-01	54153	Civil Defence Assistant, Grade KP17
2916-03	24462	Civil Defence Officer
2916-01	24463	Civil Defence Officer, Grade KP41
2142-13	21421	Civil Engineer
2142-17	21422	Civil Engineer, Aerodome Construction
2142-28	21425	Civil Engineer, Bridge Construction
2142-18	21422	Civil Engineer, Building Construction
2142-23	21422	Civil Engineer, Building Structure
2142-21	21422	Civil Engineer, Chimney Construction
2142-16	21422	Civil Engineer, Construction
2142-19	21422	Civil Engineer, Dock and Harbour Construction
2142-32	21426	Civil Engineer, Dredging
2142-27	21425	Civil Engineer, Geotechnics
2142-24	21423	Civil Engineer, Highway and Road
2142-33	21427	Civil Engineer, Hydraulics
2142-34	21427	Civil Engineer, Hydrology
2142-31	21426	Civil Engineer, Irrigation
2142-35	21428	Civil Engineer, Public Health
2142-26	21423	Civil Engineer, Railway Construction
2142-25	21423	Civil Engineer, Road Construction
2142-36	21428	Civil Engineer, Sanitary
2142-30	21426	Civil Engineer, Soil Mechanics
2142-22	21422	Civil Engineer, Structural
2142-20	21422	Civil Engineer, Tower Construction
2142-29	21425	Civil Engineer, Tunnel Construction
3112-06	31121	Civil Engineering Assistant

MASCO 2013	MASCO 2008	JOB TITLE
3112-07	31121	Civil Engineering Estimator
3112-13	31191	Civil Engineering Supervisor
3112-05	31121	Civil Engineering Technician
2142-12	21421	Civil Engineering Technologist
3716-03	33561	Civil Service Inspector
3716-02	33568	Civilian Liaison Officer, Grade KP19
3315-06	33155	Claim Assessor
3312-05	33122	Claim Executive
3315-05	33155	Claim Inspector
4312-09	43128	Claims Clerk
4323-03	43232	Claims Clerk, Transport
8181-28	81849	Clay Maker, Pottery
9111-08	91113	Cleaner
9112-09	91223	Cleaner, Aircraft (Interior)
9112-05	91126	Cleaner, Building
7133-01	71331	Cleaner, Building Exteriors
9129-03	91294	Cleaner, Carpet
9129-05	91296	Cleaner, Graffiti
9112-02	91124	Cleaner, Hotel
9111-06	91111	Cleaner, House
8141-20	93226	Cleaner, Latex Tank
8122-11	81225	Cleaner, Metal
9112-03	91124	Cleaner, Office
9123-02	New	Cleaner, Sliding Door
9123-03	New	Cleaner, Surface
9129-04	91295	Cleaner, Swimming Pool
9122-01	91222	Cleaner, Vehicles
9112-10	New	Cleaner, Vehicles (Interior)
9123-01	91231	Cleaner, Window
1622-02	14321	Cleaning Manager
9613-05	96134	Cleaning Worker, Blowing Machine
9613-06	96135	Cleaning Worker, Vacuuming Machine
3331-01	33311	Clearing Agent
3341-06	33411	Clerical Supervisor
4412-11	44125	Clerk, Address List
4416-07	44168	Clerk, Addressing Machine
4419-18	44199	Clerk, Advertising
4416-09	44168	Clerk, Classification
3411-11	44199	Clerk, Court
4415-02	44151	Clerk, Directory Compilation
4415-09	44157	Clerk, Document
4416-01	44161	Clerk, Employment
4322-05	43221	Clerk, Engineering
4322-26	43226	Clerk, Facility Maintenance
4415-01	44151	Clerk, Filing
4323-16	43234	Clerk, Flight Operation
4322-16	43221	Clerk, Food and Beverage Research
4416-02	44167	Clerk, General Affairs
4416-05	44167	Clerk, Human Resource
3411-10	44199	Clerk, Judge
4419-09	43225	Clerk, Local Sales
4322-08	43221	Clerk, Logging
4412-10	44125	Clerk, Mail
4412-02	44122	Clerk, Mail Dispatch
4412-06	44124	Clerk, Mail Sorting
4412-12	44125	Clerk, Mailing List
4322-14	43221	Clerk, Maintenance
4419-07	43225	Clerk, Marketing
4322-18	43221	Clerk, Material Order
4322-17	43221	Clerk, Material Planning
4322-07	43221	Clerk, Mill Office
4322-15	43221	Clerk, Motor Maintenance
4322-03	43221	Clerk, Operation



MASCO 2013	MASCO 2008	JOB TITLE
4322-12	43221	Clerk, Order Management
4322-10	43221	Clerk, Packing
4416-03	44167	Clerk, Personnel
4416-04	44167	Clerk, Personnel Records
4415-04	44152	Clerk, Photocopying
4322-04	43221	Clerk, Plantation
4322-23	43223	Clerk, Power Plant
4416-10	44168	Clerk, Probate
4322-11	43221	Clerk, Procurement
4322-09	43221	Clerk, Procurement Purchasing
4322-01	New	Clerk, Production
4322-13	43221	Clerk, Production Administration
4322-02	43221	Clerk, Production Control
4322-24	43224	Clerk, Production Planning
4419-12	43225	Clerk, Production Sales Administration
4322-06	43221	Clerk, Quality and Ecology
4322-28	43227	Clerk, Quality Assurance
4322-29	43227	Clerk, Quantity Control
4416-08	44168	Clerk, Registration
4419-06	43225	Clerk, Sales
4419-11	43225	Clerk, Sales Administration
4419-08	43225	Clerk, Sales and Marketing
4419-10	43225	Clerk, Sales Counter
4419-14	43225	Clerk, Sales Order
4322-21	43222	Clerk, Service
4323-22	43235	Clerk, Shipping and Purchasing
4322-22	43222	Clerk, Site
4322-27	43226	Clerk, Technical
4322-25	43226	Clerk, Technician
4419-13	43225	Clerk, Telesales
5231-14	52307	Clerk, Ticket Issuing (Except Travel)
5231-19	52309	Clerk, Toll Collection
4322-20	43222	Clerk, Tool
4323-18	43234	Clerk, Traffic
3112-08	31121	Clerk-of-Work
3111-26	New	Climate Data Processor
2112-13	New	Climate Service Specialist
3111-27	New	Climate Service Technician
2112-04	21122	Climatologist
3256-05	32532	Clinical Assistant
3252-02	New	Clinical Coder
2265-12	New	Clinical Dietician
1612-07	New	Clinical Director
3256-14	32532	Clinical Instructor
2221-04	New	Clinical Nurse
2241-03	New	Clinical Officer (Paramedical)
2824-06	New	Clinical Psychologist
4419-17	44199	Clipper, Press
2847-04	26574	Clown
5169-02	New	Club Host
1621-08	14313	Club Manager
3623-07	34239	Clubhouse Supervisor
3622-18	34228	Coach, Instructor and Other Sports Official (Indoor)
3622-19	34229	Coach, Instructor and Other Sports Official (Outdoor)
3117-18	31212	Coal Mine Technician
8111-13	New	Coal Miner
2146-03	21463	Coal Mining Engineer
8112-12	New	Coal Washer
5419-11	54196	Coastguard
7623-05	75333	Cobbler
2512-11	New	Cobol Developer
2514-21	New	Cobol Programmer
9211-22	New	Coconut Tapper

MASCO 2013	MASCO 2008	JOB TITLE
4413-05	New	Coding Clerk
4413-02	44132	Coding Clerk, Data Processing
4413-03	44132	Coding Clerk, Statistics
5141-01	51411	Coiffeur
4312-28	43115	Collateral Clerk
7323-06	New	Collator Operator
6341-04	63405	Collector, Bird's Nest
9212-05	92121	Collector, Egg
9612-06	96299	Collector, Old Metal
9612-07	96299	Collector, Old Newspaper
6341-09	New	Collector, Ornamental Stone
6341-01	63401	Collector, Petai
9611-04	New	Collector, Recycling
6341-02	63402	Collector, Resin
9611-03	96119	Collector, Rubbish
9612-08	New	Collector, Scrap
9625-25	54147	Collector, Ticket
2425-16	24252	College / University Registrar
2832-06	26421	Columnist
2846-07	26562	Commentator
2841-09	New	Commercial Artist
6222-08	62226	Commercial Fisherman
3631-04	34312	Commercial Illustration Photographer
3631-13	New	Commercial Photographer
2163-01	21631	Commercial Product Designer
3322-25	33229	Commercial Railway Officer
5121-09	51201	Commis
2619-02	26191	Commissioner for Oaths
3324-01	33241	Commodity Broker
2514-05	25142	Communication Programmer
2141-06	21413	Communications Analyst
3512-07	35122	Communications Assistant (ICT)
2511-01	25111	Communications Computer Analyst
1222-03	12222	Communications Manager
3522-03	New	Communications Technician
1613-03	New	Community Aged Care Coordinator
1614-03	New	Community Centre Manager
3611-01	44164	Community Development Assistant, Grade S17
2825-01	26353	Community Development Officer, Grade S41
3611-19	New	Community Development Worker
3253-01	New	Community Health Aide
1612-08	New	Community Health Care Coordinator
3253-02	New	Community Health Promoter
3253-03	New	Community Health Worker
3222-01	32222	Community Nurse, Grade U19
3611-20	New	Community Service Worker
5162-02	51621	Companion
5162-03	51621	Companion, Social
2411-20	24116	Company Accountant
1121-04	11201	Company Director
3343-14	33431	Company Secretary
3343-07	New	Company Secretary (Public Sector)
1212-09	New	Compensation & Benefits Manager
2846-05	26561	Compere
4415-03	44151	Compiler, Directory
1214-07	New	Compliance Manager
7321-02	73211	Compositor
3122-05	31221	Compounding Supervisor
3132-02	31322	Compressor Operator
2152-06	21523	Computer Applications Engineer
3512-06	35122	Computer Assistant
2521-05	25212	Computer Auditor
3511-16	New	Computer Console Operator

MASCO 2013	MASCO 2008	JOB TITLE
2511-05	25111	Computer Consultant
4132-06	41321	Computer Data Entry Clerk
2152-09	21523	Computer Engineer
2152-11	21523	Computer Engineer, Hardware
2152-10	21523	Computer Engineer, Software
3512-05	35122	Computer Engineering Assistant
7422-07	New	Computer Equipment Fitter
2514-28	New	Computer Game Programmer
2166-35	New	Computer Graphics (CG) Artist
2166-03	21663	Computer Graphics and Sound Artist
3512-04	35122	Computer Help Desk Operator
3512-01	35121	Computer Help Desk Technician
3513-01	35131	Computer Network Technician
3511-18	New	Computer Operator
3511-07	35111	Computer Peripheral Equipment Console Technician
3511-08	35111	Computer Peripheral Equipment High-Speed Printer Technician
3511-20	New	Computer Peripheral Equipment Operator
3511-06	35111	Computer Peripheral Equipment Technician
2514-01	25141	Computer Programmer
3512-09	35122	Computer Programming Assistant
2511-12	New	Computer Scientist
1511-18	New	Computer Security Manager
1511-06	13303	Computer Services Manager
2522-18	New	Computer Support Engineer
2522-14	25221	Computer System Administrator
2511-04	25111	Computer System Analyst
2511-10	21664	Computer System Designer
3512-13	New	Computer Systems Analysis Assistant
2152-13	21523	Computer Systems Engineer
3511-05	35111	Computer Technician
3511-01	35114	Computer Technician, Grade FT17
2393-02	New	Computer Trainer
3512-10	35122	Computer User Service Assistant
2166-14	26515	Computer Visualiser Artist
2152-24	New	Computer-Aided Design (CAD) Design Automation Engineer
2152-25	New	Computer-Aided Design (CAD) Engineer
4224-14	42228	Concierge
2113-39	New	Condensation Specialist
6111-13	31425	Conductor, Field and Factory Oil Palm Plantation
6111-12	31425	Conductor, Field and Factory Rubber Plantation
7512-03	75124	Confectionary Maker
3332-05	New	Conference and Event Organiser
3332-07	New	Conference Planner
4111-13	41101	Confidential Clerk
4121-11	41201	Confidential Secretary
3633-02	44193	Conservation Assistant, Grade S17
2133-19	New	Conservation Officer
2133-20	New	Conservation Scientist
2132-02	21324	Conservator of Forest, Grade G41
2183-01	21831	Construction Executive
7233-07	New	Construction Machinery Mechanic
7233-08	New	Construction Machinery Repairer
1323-01	13231	Construction Manager
3123-03	31232	Construction Supervisor
3343-15	33433	Consular Official
1112-28	11123	Consul-General
1222-07	12212	Contact Centre Manager
5244-02	New	Contact Centre Personnel
1222-10	New	Contact Centre Team Leader
3254-02	New	Contact Lens Optician
2847-02	26572	Contortionist
1323-03	13232	Contract Manager
4323-19	43234	Control Clerk, Air Transport Service

MASCO 2013	MASCO 2008	JOB TITLE
4412-08	44124	Control Clerk, Mail
4412-07	44124	Control Clerk, Mail Depot
4412-09	44124	Control Clerk, Postal Service
4323-05	43232	Control Clerk, Railway Service
4323-11	43233	Control Clerk, Road Transport Services
4323-25	43235	Control Clerk, Sea Transport Services
4323-04	43232	Control Clerk, Train
4415-07	44155	Controller, Document
3139-04	31343	Controlman
3134-03	31343	Controlman (Petroleum Refining)
8121-11	81211	Converter Blowing Operator, Steel Converting
3411-07	New	Conveyancing Clerk
5121-04	51202	Cook
5121-07	51204	Cook, Food Canning & Preserving
5121-02	51205	Cook, Grade N17
5121-05	51202	Cook, Hotel and Catering Services
5121-06	51203	Cook, Private Service
5121-10	51201	Cook's Assistant
8131-17	81312	Cooker, Chemical Processes
8131-10	81312	Cooking Equipment Operator, Chemical Processes
7514-06	75145	Cooking Oil Extracter
4415-08	44156	Coordinator, Document
4419-15	43225	Coordinator, Sales
4323-29	43237	Coordinator, Shipping
7213-04	72132	Coppersmith
2832-10	New	Copy Editor
2831-11	26413	Copywriter, Advertising
7211-09	72112	Core Checker, Foundry
7211-07	New	Coremaker
8221-45	82211	Coremaker, Foundry Machine
7211-08	72112	Coremaker, Metal
2619-08	26197	Coroner
2432-04	24321	Corporate Affairs Executive
2432-09	24323	Corporate Communications Executive
2412-05	24121	Corporate Financial Adviser
1213-03	New	Corporate Planning Manager
1219-05	12191	Corporate Services Manager
1624-06	New	Correctional Service Manager (Archive)
3343-18	41102	Correspondence Assistant
4111-14	41101	Correspondence Clerk
2111-26	21118	Cosmologist
2411-11	24113	Cost Accountant
4311-21	43117	Cost Clerk
4311-24	43117	Cost Computing Clerk
2411-23	33122	Cost Controller
2141-15	21414	Cost Evaluation Engineer
4311-26	43117	Costing Assistant
3312-07	33122	Costing Executive
2163-08	New	Costume Designer
4214-09	42145	Costume Rental Clerk
3611-18	34129	Counselling Assistant
2825-04	26352	Counsellor
4225-04	42252	Counter Enquiry Clerk
5211-04	52114	Counter Sales Promoter
8312-05	83124	Coupler, Railway Yard
2619-09	26197	Court Receiver and Liquidator
2832-17	New	Court Reporter
7317-01	New	Craft Instructor, Grade E17
7319-02	73193	Craftsman
7224-08	72246	Crankshaft Grinder
3139-05	31344	Crankshaft Grinding Technician
8161-18	81602	Cream Separator, Dairy
2166-18	New	Creative Designer

MASCO 2013	MASCO 2008	JOB TITLE
4311-17	43115	Credit Clerk
4311-18	43115	Credit Control Assistant
4311-16	43115	Credit Control Clerk
3312-03	33121	Credit Control Executive
1211-07	12111	Credit Manager
3312-04	33121	Credit Supervisor
1616-05	New	Credit Union Manager
8351-11	83504	Crew, Ferry
8351-10	83504	Crew, Ship
6222-06	62225	Crewman
8351-07	83503	Crewman
2822-08	26325	Criminologist
2831-08	26412	Critic
7621-24	75319	Crocheter
9211-01	92111	Crop Farm Labourer
9211-02	92111	Crop Farm Labourer, Abaca
9211-07	92111	Crop Farm Labourer, Field Crop
9211-03	92111	Crop Farm Labourer, Nuts
9211-15	New	Crop Farm Labourer, Oil Palm
9211-04	92111	Crop Farm Labourer, Paddy
9211-05	92111	Crop Farm Labourer, Spice
9211-08	92111	Crop Farm Labourer, Sugarcane
9211-10	92111	Crop Farm Labourer, Tapioca
9211-09	92111	Crop Farm Labourer, Tobacco
9211-06	92111	Crop Farm Labourer, Vegetables
2133-03	21332	Crop Research Scientist
3142-05	31422	Crop Research Technician
5419-17	New	Crossing Guard
4212-03	42122	Croupier
8131-21	81313	Crude Oil Treating Equipment Operator
1621-11	14313	Cruise Manager
8112-13	New	Crusher Operator (Mineral or Stone Processing)
8131-06	81311	Crushing Operator, Chemical Processes
2144-08	21443	Cryogenic Engineer
3634-02	34354	Cultural Artist, Grade B17
2843-01	34353	Cultural Artist, Grade B32
1624-04	14312	Cultural Manager
3639-03	JPA	Cultural Officer, Grade B11
2844-01	24326	Cultural Officer, Grade B41
3231-06	New	Cupping Therapist
2811-06	26211	Curator
2811-02	26215	Curator, Grade S41
7516-06	75166	Curer, Tobacco
4211-05	42115	Currency Sorter
2391-10	New	Curriculum Coordinator
2391-01	23993	Curriculum Developer
2432-15	New	Customer Care Coordinator
4225-03	42251	Customer Complaint Clerk
4222-08	New	Customer Contact Centre Information Clerk
5244-01	52441	Customer Contact Centre Salesperson
3512-11	New	Customer Help Desk Officer
2432-16	New	Customer Relations Executive
4222-05	New	Customer Service Assistant
2432-07	24321	Customer Service Executive
1222-06	12212	Customer Service Manager
2432-14	New	Customer Service Officer
4225-02	42227	Customer Service Officer, Grade N17
4222-03	42222	Customer Service Supervisor
2434-05	New	Customer Support Representative
3711-02	33511	Customs and Border Inspector
3711-01	33511	Customs Inspector
5415-02	54152	Customs Superintendent Assistant, Grade W17
7323-07	New	Cutter Operator

MASCO 2013	MASCO 2008	JOB TITLE
7622-04	75324	Cutter, Garment
7622-08	75325	Cutter, Gloves
7113-11	71139	Cutter, Granite
7622-09	75325	Cutter, Mattress
8171-06	81716	Cutter, Paper Pulp
7622-06	75325	Cutter, Sail
7113-04	71132	Cutter, Stone
7622-05	75325	Cutter, Tent
7622-07	75325	Cutter, Umbrella
8172-08	81722	Cutter, Veneer
7122-05	71224	Cutter-Setter, Mosaic
7224-02	72242	Cutting Instruments Sharpener
8111-05	81111	Cutting Machine Operator, Mine
3122-07	31222	Cutting Supervisor
3119-28	31222	Cutting Technician
2529-02	New	Cyber Security Executive
3134-14	31349	Cylinder Filler and Tester (Compressed and Liquefied Gases)
2131-18	New	Cystologist
2131-20	21313	Cystologist, Animal
2131-19	21312	Cystologist, Plant
3212-09	32121	Cytology Technician
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3142-13	New	Dairy Technician
2843-06	26534	Dance Arranger
2843-05	26533	Dance Director
2843-07	26534	Dance Instructor
5169-03	New	Dance Partner
2353-02	New	Dance Teacher
2843-02	26531	Dancer
2843-03	26531	Dancer, Night Club
3257-21	New	Dangerous Goods Inspector
3257-22	New	Dangerous Waste Inspector
7422-06	New	Data and Telecommunications Cabler
2511-37	New	Data Centre Specialist
4132-08	New	Data Entry Operator
3341-02	33411	Data Entry Supervisor
4132-04	New	Data Input Clerk
1511-10	New	Data Operations Manager
1511-07	13304	Data Processing Manager
2521-03	25211	Database Administrator
2521-02	25211	Database Analyst
2521-01	25211	Database Architect
3512-08	35122	Database Assistant
2521-04	25211	Database Designer
1511-17	New	Database Manager
2514-06	25143	Database Programmer
1421-14	14203	Dealer
1615-06	13452	Dean
1615-07	13452	Dean of Faculty
4214-04	42143	Debt Collector
8351-05	83501	Deckhand (Ship, Barge and Boat)
7316-10	New	Decorative Painter
8161-58	81605	Dehydrator, Foodstuffs
4321-05	43211	Delivery and Receiving Clerk
1113-02	11131	Demang
3641-12	34347	Demi Chef
2121-22	21209	Demographer
5242-01	52421	Demonstrator
5321-06	53211	Dental Aide
3251-06	32512	Dental Assistant
3251-03	32511	Dental Health Nurse



MASCO 2013	MASCO 2008	JOB TITLE
3251-07	New	Dental Hygienist
2311-05	23109	Dental Lecturer, Grade DUG45
3251-04	32511	Dental Nurse
3251-01	32513	Dental Nurse, Grade U29
0111-02	New	Dental officer
2261-01	22617	Dental Officer, Grade U41
2261-16	New	Dental Practitioner
7311-05	73112	Dental Prosthesis Maker
7311-13	73112	Dental Prosthesis Repairer
4224-03	42263	Dental Receptionist
3251-05	32511	Dental School Nurse
2261-17	New	Dental Surgeon
3251-02	53212	Dental Surgery Assistant, Grade U17
3214-01	New	Dental Technician
2261-21	32141	Dental Technologist, Grade U29
3251-08	New	Dental Therapist
2261-04	22611	Dentist
2261-13	22616	Dentist, Oral Surgery
2261-07	22613	Dentist, Orthodontistry
2261-05	22612	Dentist, Paedodontistry
2261-11	22615	Dentist, Periodontistry
2261-09	22614	Dentist, Prosthodontistry
3214-02	New	Denturist
1111-09	New	Deputy Chief Minister
1121-05	New	Deputy Executive Director
1111-04	11112	Deputy Minister
1111-13	New	Deputy President of the Senate
1111-02	11115	Deputy Prime Minister
1112-22	11121	Deputy Secretary of Government
1111-16	New	Deputy Speaker of the House Representatives
2212-33	22129	Dermatologist
8113-12	New	Derrick Operator
8113-11	New	Derrickman
2166-19	New	Design Architect
2512-04	New	Design Engineer
2511-59	New	Design Engineer (IT)
1619-02	13492	Design Manager
2166-06	New	Designer
2166-08	34321	Designer Artist
3632-01	34328	Designer, Grade B11
2166-01	21661	Designer, Grade B41
2166-20	New	Desktop Publishing Artist
3632-05	New	Desktop Publishing Artist
7321-05	73214	Desktop Publishing Equipment Worker
3134-04	31344	Desulphuriser Operator, Petroleum Refining
7632-04	75422	Detonator
7324-06	73245	Developer, Colour and Black and White Films
7324-07	73246	Developer, X-Ray Film
8132-24	New	Developing Machine Operator - Photography
3211-04	New	Diagnostic Medical Radiographer
2146-05	21463	Diamond Mining Engineer
2144-12	21445	Diesel Engineer
7231-17	New	Diesel Fitter (Road Transport)
2265-10	22653	Dietetic Consultant
2265-01	22656	Dietetics Officer, Grade U41
2265-02	22651	Dietician
2166-09	New	Digital Artist
2529-03	New	Digital Forensic Specialist
2152-37	New	Digital Integrated Circuit (IC) Designer
7322-06	New	Digital Press Operator
3641-09	34343	Dim Sum Chef
1112-31	11123	Diplomatic Representative of Embassy
5243-01	52433	Direct Selling Salesperson

MASCO 2013	MASCO 2008	JOB TITLE
1121-24	New	Director
1612-02	13421	Director of Nursing
1121-17	11202	Director of Organisation
2844-17	New	Director of Photography
1112-26	New	Director of Statutory Body
2844-11	26541	Director, Motion Picture
1112-16	11121	Director-General of Regional Government
1112-12	New	Director-General of Customs
1121-13	11201	Director-General of Enterprise
1112-13	New	Director-General of Fire and Rescue
1112-15	11121	Director-General of Government Department
1112-08	New	Director-General of Health
1121-15	11202	Director-General of Organisation
1112-03	New	Director-General of Public Service
1112-25	New	Director-General of Statutory Body
3611-21	New	Disability Service Officer
1412-09	14122	Discotheque Manager
3252-03	New	Disease Registry Technician
2846-01	26561	Disk Jockey (DJ)
4323-30	New	Dispatch Clerk, (Transport Service)
4323-17	43234	Dispatch Clerk, Air Transport
4323-20	43234	Dispatch Clerk, Aircraft
4323-26	43235	Dispatch Clerk, Boat
4323-12	43233	Dispatch Clerk, Bus
4323-27	43235	Dispatch Clerk, Gas Pipeline
4323-28	43235	Dispatch Clerk, Oil Pipeline
4323-07	43232	Dispatch Clerk, Railway
4323-13	43233	Dispatch Clerk, Road Transport
4323-06	43232	Dispatch Clerk, Train
4323-14	43233	Dispatch Clerk, Truck
2262-07	New	Dispensing Chemist
3254-03	New	Dispensing Optician
3632-08	34322	Display Artist
3632-09	34322	Display Decorator
3632-12	34322	Display Designer
1222-05	12223	Display Manager
3131-11	New	Distribution Control Operator
1324-09	13242	Distribution Manager
2221-05	New	District Nurse
8351-21	75415	Dive Boatman
7631-01	75411	Diver
0221-06	New	Diver
7631-02	75412	Diver, Construction
6222-05	62223	Diver, Oyster
6222-04	62223	Diver, Pearl
9333-02	93331	Docker
3115-18	31154	Dockmaster, Dry Dock
3115-19	31154	Dockmaster, Graving Dock
4415-06	44154	Document Control Clerk
4415-05	44153	Document Copying Clerk
9621-15	New	Document Courier
9621-10	96213	Document Searcher
2812-13	26225	Documentalist
2844-16	New	Documentary Director
2848-03	26583	Dog Trainer
5152-03	New	Domestic Housekeeper
9111-02	91111	Domestic Servant
5414-18	New	Doorkeeper
5243-03	New	Door-to-Door Sales Representative
5243-02	New	Door-to-Door Salesperson
8111-10	New	Dragline Operator (Mining)
7119-03	71192	Drain Layer
2353-03	New	Drama Teacher

MASCO 2013	MASCO 2008	JOB TITLE
3118-04	31181	Draughting Technician
3118-05	31181	Draughtsperson
3118-11	31181	Draughtsperson, Aeronautical Engineering
3118-20	31181	Draughtsperson, Architectural
3118-10	31181	Draughtsperson, Cartographical
3118-12	31181	Draughtsperson, Civil Engineering
3118-06	31181	Draughtsperson, Die
3118-13	31181	Draughtsperson, Electrical Engineering
3118-14	31181	Draughtsperson, Electronics Engineering
3118-07	31181	Draughtsperson, Geological
3118-01	31182	Draughtsperson, Grade J17
3118-17	31181	Draughtsperson, Heating and Ventilation System Engineering
3118-08	31181	Draughtsperson, Illustration Technique
3118-09	31181	Draughtsperson, Jig & Tool
3118-18	31181	Draughtsperson, Lithographic
3118-15	31181	Draughtsperson, Marine Engineering
3118-16	31181	Draughtsperson, Mechanical Engineering
3118-19	31181	Draughtsperson, Mining
3118-21	31181	Draughtsperson, Structural
3118-22	31181	Draughtsperson, Technical
3118-23	31181	Draughtsperson, Topographical
8121-19	81215	Drawer, Metal
8121-29	81216	Drawer, Seamless Pipe and Tube
8121-28	81216	Drawer, Wire
7113-12	71139	Dresser, Stone
8112-08	81123	Dresser, Tin Ore
7621-03	75311	Dressmaker
8113-07	81134	Driller
8111-07	81112	Drilling Machine Operator, Quarry
0321-21	New	Driver
8322-11	83224	Driver, Ambulans
9332-03	93323	Driver, Animal Train
9332-05	New	Driver, Animal-Drawn Machinery
9332-01	93321	Driver, Animal-Drawn Vehicle
8351-02	83501	Driver, Boat
9332-02	93322	Driver, Bullock-Cart
8331-01	83311	Driver, Bus
8322-10	83226	Driver, Car
8332-09	New	Driver, Concrete Mixer
8342-05	83424	Driver, Ditch Backhoe
8332-04	83323	Driver, Dump Truck
8311-09	83114	Driver, Engine
8341-02	83411	Driver, Farm Tractor
8332-03	83322	Driver, Fire-Engine
8322-01	83228	Driver, Grade R3
8332-08	83328	Driver, Log
8332-01	83321	Driver, Lorry
8321-04	83214	Driver, Motorised Tricycle
8322-06	83222	Driver, Office Manager
8322-09	83226	Driver, Personal
8321-03	83213	Driver, Rickshaw
8332-06	83325	Driver, Tanker
8322-04	83221	Driver, Taxi
8341-03	83412	Driver, Timber Carrier
8332-07	83326	Driver, Tow Truck
8331-02	83312	Driver, Tram
8332-05	83324	Driver, Truck
8322-07	83223	Driver, Van
8341-04	83413	Driver, Winch Truck
8343-01	83116	Driver/ Operator, Crane, Grade R3
8311-10	83114	Driver's Assistant, Locomotive
5165-01	51651	Driving Instructor
7312-05	73123	Drum Maker

MASCO 2013	MASCO 2008	JOB TITLE
8131-09	81312	Dry Operator, Chemical Processes
9121-03	91213	Dry-Cleaner
3521-07	35212	Dubbing Mixer
9311-04	93111	Dulang Washer
9611-05	New	Dustman/woman
1323-07	13234	Duty Manager
<b>E</b>		
2212-01	22121	Ear, Nose and Throat Specialist
2342-04	New	Early Childhood Educator
7231-04	72311	Earth-Moving Equipment Mechanic
2131-52	21315	Ecologist
2131-53	21315	Ecologist, Animal
2131-54	21315	Ecologist, Plant
2131-55	21315	Ecologist, Social
3212-05	32121	Ecology Technician
2412-07	24122	E-Commerce Adviser
2821-05	26311	Econometrician
4419-01	43125	Economic Affairs Assistant, Grade E17
2821-01	26312	Economic Affairs Officer, Grade E41
2821-08	New	Economics Adviser
2821-09	New	Economics Analyst
2821-06	26311	Economist
2821-07	26311	Economist, Econometrics
2831-18	26415	Editor
1615-01	13451	Education Manager
2391-02	New	Education Method Specialist
2399-05	23994	Educational Counsellor
2391-09	23992	Educational Method Adviser
2824-07	New	Educational Psychologist
2391-04	23991	Educational System Evaluator
2391-08	23991	Educational System Researcher
3719-08	33596	Electoral Officer
7413-08	74133	Electric Cable Joiner
3131-01	31311	Electric Power Load Dispatcher
3131-07	New	Electric Power Plant Operator
2151-14	21513	Electric Power Transmission Engineer
3113-08	31131	Electrical and Instrument Supervisor
3113-10	31133	Electrical Electric Power Transmission Engineering Technician
2151-04	21511	Electrical Engineer
2151-10	21513	Electrical Engineer, Electric Power Distribution
2151-07	21512	Electrical Engineer, Electric Power Generation
2151-11	21513	Electrical Engineer, Electric Power Transmission
2151-12	21513	Electrical Engineer, Electric Traction
2151-16	21515	Electrical Engineer, Electromechanical Equipment
2151-08	21512	Electrical Engineer, High Voltage
3113-05	31131	Electrical Engineering Assistant
3113-11	31134	Electrical Engineering Estimator
3113-02	31131	Electrical Engineering Technician
2151-03	21511	Electrical Engineering Technologist
7412-05	74121	Electrical Fitter
7412-06	74121	Electrical Fitter, Lift
7412-21	New	Electrical Generator Fitter
7412-11	74129	Electrical Generator Operator
3113-09	31132	Electrical High Voltage System Engineering Assistant
2151-15	21514	Electrical Illuminating Engineer
7412-20	New	Electrical Mechanic
7412-13	74129	Electrical Motor and Dynamo Fitter
7412-12	74129	Electrical Office Machinery Fitter
7413-06	74131	Electrical Power Line Installer
7412-08	74128	Electrical Repairman, Household Appliance
3113-07	31131	Electrical Supervisor

MASCO 2013	MASCO 2008	JOB TITLE
3131-02	31312	Electrical Switchboard Operator
2151-05	21511	Electrical Systems Engineer
3113-06	31131	Electrical Technical Assistant
0321-06	New	Electrical Technician
2151-06	21511	Electrical Testing Engineer
7411-04	New	Electrician
7412-17	74126	Electrician, Aircraft
7411-02	74111	Electrician, Building
7411-03	74112	Electrician, Construction
7413-12	74123	Electrician, Maintenance
7412-15	74124	Electrician, Ship
7412-18	74127	Electrician, Stage and Studio
7412-16	74125	Electrician, Vehicle
1622-11	13493	Electricity, Water and Sanitation Manager
3256-09	32562	Electrocardiograph Equipment Technician
2151-20	New	Electrode Cylindrical Engineer
2151-21	New	Electrode Polymer Engineer
3256-10	32563	Electroencephalograph Equipment Technician
2151-24	New	Electrolyte Engineer
3511-09	35111	Electronic Data Processing (EDP) Technician
2511-02	25111	Electronic Data Processing Analyst
3511-12	35111	Electronic Data Processing Supervisor
2152-03	21521	Electronic Engineering Technologist
7422-11	74215	Electronic Fitter, Computer
7422-10	74212	Electronic Fitter, Radar Equipment
7422-08	74212	Electronic Fitter, Radio Television Equipment
7422-09	74212	Electronic Fitter, Video Equipment
4132-07	41321	Electronic Mail Data Entry Clerk
7321-09	New	Electronic Pre-Press Technician
2152-04	21521	Electronics Engineer
2152-20	21526	Electronics Engineer, Instrumentation
2152-18	21525	Electronics Engineer, Semiconductors
2152-08	21523	Electronics Engineer, Computer Hardware Design
2152-07	21523	Electronics Engineer, Information Engineering
3114-05	31141	Electronics Engineering Assistant
3114-04	31142	Electronics Engineering Estimator
3114-02	31141	Electronics Engineering Technician
8122-02	81221	Electroplater
3255-02	32551	Electrotherapist
7316-07	73163	Electrotypist
4229-02	42292	Eligibility Interviewer
4229-03	42293	Eligibility Specialist
5163-03	51632	Embalmer
2152-32	New	Embedded System Board Designer
7621-12	75316	Embroiderer, Hand
3258-04	New	Emergency Medical Technician
3258-05	New	Emergency Paramedic
3333-01	33331	Employment Agent
2423-07	24233	Employment Counsellor
8131-38	81314	Enameller, Chemical
7316-05	73162	Enameller, Glass
2134-09	21344	Endocrinologist
2261-18	New	Endodontist
3714-01	54154	Enforcement Assistant, Grade N17
2914-01	24494	Enforcement Officer, Grade N41
8311-01	83115	Engine Driver (Bukit Bendera Train), Grade R9
8311-08	83113	Engine Driver, Mine
2144-13	21445	Engine Engineer
7231-18	New	Engine Fitter (Motor Vehicle)
8351-19	New	Engine Oiler
0321-07	New	Engine Technician
2142-10	New	Engineer
2145-01	SPA	Engineer (Chemical), GradeJ41

MASCO 2013	MASCO 2008	JOB TITLE
2142-01	21424	Engineer (Civil), Grade J41
2151-01	21516	Engineer (Electrical), Grade J41
2152-01	21527	Engineer (Electronics), Grade J41
2144-01	21446	Engineer (Mechanical), Grade J41
2131-32	21316	Engineer, Genetics
2142-03	New	Engineer, Grade J41
3119-18	31191	Engineering Assistant, Production
0311-03	New	Engineering Branch Officer
3511-10	35111	Engineering Computer Assistant
3112-12	31191	Engineering Designer
3118-25	31189	Engineering Illustrator
3322-07	33225	Engineering Sales Agent
2149-15	21495	Engineering Store Executive
3119-22	New	Engineering Technician (Production)
3522-02	35222	Engineering Technician (Telecommunications)
3119-11	31191	Engineering Technician, Industrial
3119-17	31191	Engineering Technician, Industrial Layout
3119-15	31191	Engineering Technician, Planning
3119-14	31191	Engineering Technician, Production
3119-12	31191	Engineering Technician, Safety
3119-16	31191	Engineering Technician, Systems
3119-10	31191	Engineering Technician, Time and Motion Study
3119-13	31191	Engineering Technician, Value
3119-09	31191	Engineering Technician, Work Study
7316-02	73161	Engraver
7324-03	73243	Engraver, Printing Lithographic Stone
7324-01	73241	Engraver, Printing Metal Plate
4225-05	42253	Enquiry Clerk
3221-03	New	Enrolled Nurse
1121-08	11201	Enterprise Chairman
1121-07	11201	Enterprise Director
2511-20	New	Enterprise Resource Planning (ERP) Programmer Analyst (ABAP)
2511-47	New	Enterprise Resource Planning (ERP) Technical Specialist (IT)
2511-46	New	Enterprise Systems Specialist (IT)
3141-18	31412	Entomological Assistant
3141-02	31412	Entomological Technician
2131-51	21314	Entomologist
2133-21	New	Environmental Adviser
2143-05	New	Environmental Analyst
2133-22	New	Environmental Auditor
2133-23	New	Environmental Consultant
2133-01	21338	Environmental Control Officer, Grade C41
2143-01	21431	Environmental Engineer
2263-07	New	Environmental Health Enforcement Officer
3257-24	New	Environmental Health Inspector
2263-09	New	Environmental Health Officer
1621-06	14313	Environmental Manager
2263-10	New	Environmental Officer
2143-04	New	Environmental Remediation Specialist
2133-18	21336	Environmental Research Scientist
3257-23	New	Environmental Safety and Health Technician
2263-08	New	Environmental Safety and Health Technologist
2133-24	New	Environmental Scientist
3129-02	31291	Environmental Supervisor
1622-12	13493	Environmental Systems Manager
2134-32	21348	Epidemiologist
8189-03	81891	Equipment and Machine Operator
7119-09	New	Erector
7119-06	71195	Erector, Billboard
7214-02	72142	Erector, Constructional Steel
7214-07	72147	Erector, Structural Metal
9511-02	New	Errand Boy
2831-05	26412	Essayist



MASCO 2013	MASCO 2008	JOB TITLE
3334-05	New	Estate Agent
1311-09	New	Estate Manager
2412-11	33341	Estate Planner
4311-23	43117	Estimating Clerk
7316-01	73161	Etcher
7324-02	73242	Etcher, Printing Metal Plate
2822-09	26326	Ethnologist
2421-01	24214	Evaluation Officer, Grade W41
8131-28	81314	Evaporator Operator
7515-14	New	Examiner, Paddy
8342-15	83429	Excavator Operator
3712-03	New	Excise Assistant
2912-05	New	Excise Officer
3719-12		Executioner
3322-18	33227	Executive Analyst, Market Research
4111-06	MIDA	Executive Assistant (Administration and Support), Grade 3
4111-08	SPAD	Executive Assistant (Clerical), Grade L11
4111-07	MIDA	Executive Assistant (Engineering), Grade 3
4312-02	MIDA	Executive Assistant (Finance), Grade 3
4311-02	MIDA	Executive Assistant (Accounting), Grade 3
3313-04	MIDA	Executive Assistant (Audit), Grade 3
4419-05	MIDA	Executive Assistant (Economics), Grade 3
3511-04	MIDA	Executive Assistant (Information Technology), Grade 3
4411-02	MIDA	Executive Assistant (Library), Grade 3
4121-05	MIDA	Executive Assistant (Secretarial), Grade 3
3714-02	SPAD	Executive Assistant, Grade L11
3641-03	34342	Executive Chef
1121-03	New	Executive Director
0211-01	New	Executive Officer
2411-02	24115	Executive Officer (Accounting), Grade 41
2411-05	MIDA	Executive Officer (Accounting), Grade 9
2411-07	SPAD	Executive Officer (Accounting), Grade L5
2425-02	24259	Executive Officer (Administration), Grade 41
2425-03	SPAD	Executive Officer (Administration), Grade L5
2912-01	24217	Executive Officer (Appraisal), Grade 41
2411-31	24118	Executive Officer (Audit), Grade 41
2411-39	MIDA	Executive Officer (Audit), Grade 9
2411-40	SPAD	Executive Officer (Audit), Grade L5
2149-03	21652	Executive Officer (Building Surveyor), Grade 41
2821-03	MIDA	Executive Officer (Economics), Grade 9
2914-03	SPAD	Executive Officer (Enforcement), Grade L5
2142-02	21423	Executive Officer (Engineering), Grade 41
2142-07	MIDA	Executive Officer (Engineering), Grade L5
2412-03	SPAD	Executive Officer (Finance), Grade L5
2522-02	25224	Executive Officer (Information Technology), Grade 41
2522-05	MIDA	Executive Officer (Information Technology), Grade 9
2522-07	SPAD	Executive Officer (Information Technology), Grade L5
2611-08	26119	Executive Officer (Legal), Grade 41
2611-13	MIDA	Executive Officer (Legal), Grade 9
2611-15	SPAD	Executive Officer (Legal), Grade L5
2812-02	26224	Executive Officer (Library), Grade 41
2812-05	MIDA	Executive Officer (Library), Grade 9
2824-02	26343	Executive Officer (Psychology), Grade 41
2919-02	24498	Executive Officer (Security), Grade 41
3343-10	33431	Executive Secretary
3343-13	33431	Executive Secretary, Administration
3343-11	33431	Executive Secretary, Committee
3343-06	33432	Executive Secretary, Government Administration
3343-12	33431	Executive Secretary, Non-Government Administration
3332-01	33321	Exhibition and Convention Consultant
3332-02	33322	Exhibition and Convention Organiser
3632-15	34322	Exhibition Designer
1211-12	12116	Expenditure Manager

MASCO 2013	MASCO 2008	JOB TITLE
2113-34	New	Exploration Geologist
2149-17	New	Explosive Ordnance Engineer
7632-03	75421	Explosives Worker
3322-12	33221	Export Executive
1421-08	14202	Export Sales Manager
3117-21	31171	Extractive Metallurgical Assistant
3117-03	31171	Extractive Metallurgical Technician
2146-15	21465	Extractive Technologist
8121-20	81215	Extruder, Metal
2212-03	22121	Eye Specialist
<b>F</b>		
2163-05	21632	Fabric Designer
2142-37	21429	Facilities Engineer
1219-04	13493	Facilities Manager
3129-03	31292	Facilities Supervisor
3341-11	33414	Factory Administrator
3119-06	32577	Factory and Machinery Inspector Assistant, Grade J17
2149-06	22633	Factory and Machinery Inspector, Grade J41
9329-10	New	Factory Hand
1321-03	13212	Factory Manager
5113-05	51133	Factory Tour Guide
3612-06	32308	Faith Healer
2825-09	New	Family Counsellor
2211-16	New	Family Medical Practitioner
1614-05	New	Family Service Manager
3611-22	New	Family Service Worker
2132-13	21321	Farm Demonstrator
9213-01	92131	Farm Labourer
7233-09	New	Farm Machinery Repairer
6121-06	New	Farmer
6131-02	New	Farmer (Mixed Farming)
6221-12	New	Farmer, Aquaculture
6111-06	61111	Farmer, Banana
6122-03	61221	Farmer, Bird
6122-02	61221	Farmer, Chicken
6129-07	61234	Farmer, Crocodile
6122-04	61221	Farmer, Duck
6221-02	61232	Farmer, Fishery
6221-01	New	Farmer, Fishery Livestock
6122-01	61221	Farmer, Goose
6123-06	61294	Farmer, Honey Bee
6123-10	New	Farmer, Insect
6123-03	61291	Farmer, Leech
6121-05	61214	Farmer, Livestock
6221-07	61231	Farmer, Ornamental Fish
6111-05	61111	Farmer, Papaya
6121-07	New	Farmer, Pig
6122-06	New	Farmer, Poultry
6221-09	61233	Farmer, Sea Cucumber
6221-08	61232	Farmer, Shellfish
6123-05	61293	Farmer, Silkworm
6129-06	New	Farmer, Snake
6221-10	New	Farmer, Turtle
6123-04	61292	Farmer, Worm
2132-11	21321	Farming Adviser
2163-03	21632	Fashion Designer
5241-01	52411	Fashion Model
9411-02	New	Fast Food Cook
9411-01	94111	Fast Food Preparer
2611-17	26111	Federal Counsel, Government Service
7322-07	New	Feeder Operator (Printing)

MASCO 2013	MASCO 2008	JOB TITLE
2241-04	New	Feldscher
7625-03	75351	Fellmonger
2172-10	21725	Ferry Captain
8351-22	New	Ferry Hand
5112-03	51121	Ferry/ Boat Conductor
2145-11	21454	Fertiliser Engineer
8131-24	81314	Fertiliser Plant Operator
2145-17	21457	Fibre Technologist
2831-13	26414	Fiction Writer
3322-19	33227	Field Consultant
3142-14	New	Field Crop Technical Officer
4312-05	43123	Field Enumerator
3111-20	31117	Field Laboratory Research Conductor
3257-25	New	Field Supervisor - Occupational Safety and Health
3341-04	33411	Filling Clerical Supervisor
2844-12	26542	Film and Video Editor
2113-01	26545	Film Lab Officer, Grade C41
3111-05	35216	Film Laboratory Assistant, Grade C17
8132-26	New	Film/Colour Developer
4312-15	43127	Finance Clerk
2412-08	24124	Finance Executive
1211-01	12111	Finance Manager
2412-01	24123	Finance Officer, Grade W41
2413-01	24131	Financial Analyst
1211-11	12115	Financial and Institution Manager
1616-01	13461	Financial and Insurance Branch Manager
2412-06	24121	Financial and Investment Adviser
3313-08	New	Financial Assistant
1616-02	13462	Financial Branch Manager
2411-25	24132	Financial Controller
2412-10	24133	Financial Planner
3313-07	33133	Financial Supervisor
2841-04	26514	Fine Art Engraver-Etcher
2352-01	23521	Fine Arts Teacher
4132-01	44166	Fingerprint Examiner, Grade N17
4321-15	43211	Finished Goods Storekeeper
3122-06	31222	Finished Goods Supervisor
7114-06	71144	Finisher, Cement
7113-15	New	Finisher, Stone
3122-03	31222	Finishing Supervisor
3719-05	33591	Fire and Safety Inspector
0321-12	New	Fire Brigade
0311-08	New	Fire Brigade Branch Officer
5411-02	54112	Fire Fighter
3112-17	New	Fire Inspector
3119-23	New	Fire Investigator
5411-01	54113	Fire Officer, Grade KB17
8182-07	81823	Fire Operator, Railway Engine
8182-04	81821	Fire Operator, Ship
5411-03	54114	Fire Prevention Officer
2919-03	24491	Fire Superintendent, Grade KB41
7112-03	71124	Firebrick Layer
9624-01	96241	Firewood Collector
5329-01	New	First-Aid Attendant
2131-39	21313	Fish Culturist
7511-08	New	Fish Filleter
7511-07	75115	Fish Pickler
7511-06	75115	Fish Salter
3144-01	61236	Fisheries Assistant, Grade G17
2132-01	21323	Fisheries Officer, Grade G41
6222-10	New	Fisherman (Coastal Waters)
6223-02	New	Fisherman (Deep Sea)
6222-11	New	Fisherman (Inland Waters)

MASCO 2013	MASCO 2008	JOB TITLE
1312-01	13121	Fishery Manager
3144-04	31443	Fishery Technician
6222-09	New	Fishery Worker
6222-03	62222	Fishery Worker, Coastal
6223-01	62231	Fishery Worker, Deep-Sea
6222-02	62221	Fishery Worker, Inland
6222-01	62221	Fishery Worker, Kelong
1312-04	New	Fishing Operation Manager
5211-07	52116	Fishmonger
3623-11	New	Fitness Instructor
7126-12	New	Fitter
7421-03	74216	Fitter, Electronic Industrial Equipment
7421-04	74217	Fitter, Electronic Meteorological Equipment
7421-01	74211	Fitter, Electronics
8211-18	82119	Fitter, Mechanical
7212-04	72123	Flame Cutter
2166-27	New	Flash Animator
2166-28	New	Flash Designer
2166-29	New	Flash Developer
8161-84	New	Flavour Mixer
7322-08	New	Flexographic Press Operator
5111-05	51114	Flight Attendant
5111-09	New	Flight Crew
2171-07	21737	Flight Engineer
0311-09	New	Flight Engineer Branch Officer
2173-06	21734	Flight Instructor
2173-05	21733	Flight Navigator
3521-17	35216	Flight Radio Equipment Technician
4323-24	43235	Float Master
3257-26	New	Flood Damage Inspector
5153-08	51513	Floor Captain
1624-11	New	Floor Manager (Broadcasting)
5151-10	51521	Floor Steward, Hotel and Lodging
5111-04	51113	Floor Steward/Stewardess
7211-04	72111	Flooring Moulder, Foundry
3142-07	31424	Floriculture Technician
2133-05	21333	Floriculturist
5211-05	52115	Florist
3632-20	34326	Flower Arranger
6113-02	61131	Flower Grower
8131-35	81314	Foam Maker, Chemical
7323-08	New	Foil Stamp Operator
7323-09	New	Folder Operator
2712-06	27111	Food and Beverage Administrator
5132-03	51323	Food and Beverage Bartender
2712-07	27112	Food and Beverage Captain
4321-18	43212	Food and Beverage Control Clerk
2712-08	27112	Food and Beverage Coordinator
2712-05	27111	Food and Beverage Executive
2712-04	27113	Food and Beverage Personnel
1411-12	14114	Food and Beverage Service Manager
5131-04	51314	Food and Beverage Supervisor
5131-09	51317	Food and Beverage Worker
5131-07	51315	Food and Beverage Worker, Banquet
5131-08	51316	Food and Beverage Worker, Room Service
2145-15	21456	Food and Drink Technologist
2145-16	21456	Food Chemical Engineer
5246-01	52461	Food Counter Atendant
8161-86	New	Food Grinder
3257-27	New	Food Inspector
5121-01	51205	Food Preparation Assistant, Grade N17
2712-02	New	Food Preparation Executive
2712-01	27116	Food Preparation Officer, Grade C41

MASCO 2013	MASCO 2008	JOB TITLE
2265-11	22653	Food Processing Consultant
8161-85	New	Food Processing Operator
3139-01	31391	Food Processing Technician
3257-44	New	Food Sanitation and Safety Inspector
2265-13	New	Food Serving Dietician
2113-02	21455	Food Technology Officer, Grade C41
3621-04	New	Footballer
3311-03	33113	Foreign Exchange Broker
3311-06	New	Foreign Exchange Dealer
8211-03	New	Foreman
7412-09	74129	Foreman, Electrical
7412-10	74129	Foreman, Maintenance
8211-17	82119	Foreman, Mechanical
7212-05	72122	Foreman, Welder
3119-21	New	Forensic Science Technician
5411-04	New	Forest Fire Fighter
6211-01	62115	Forest Guard, Grade G11
3143-01	62114	Forest Ranger, Grade G17
6211-18	62113	Forester
2132-16	21322	Forestry Adviser
2132-15	21322	Forestry Conservator
3719-11	New	Forestry Inspector
1311-02	13111	Forestry Manager
2132-14	21322	Forestry Officer
2133-12	21334	Forestry Scientist
3143-04	31431	Forestry Technician
7634-05	75442	Forging Worker, Ant
7634-03	75442	Forging Worker, Bee
7634-04	75442	Forging Worker, Mosquito
8344-04	New	Forklift Truck Driver
9312-04	96294	Formwork Construction Worker
5161-03	51613	Fortune-Teller
3331-02	33311	Forwarding Agent
3117-08	31172	Foundry Metallurgy Technician
7115-15	New	Framer, Wood
9511-07	New	Free Newspaper Distributor
2145-24	New	Freeze Dried Technologist
4321-31	43217	Freight Clerk
4321-34	43217	Freight Despatching Clerk
4321-32	43217	Freight Inward Clerk
4321-35	43217	Freight Receiving Clerk
4321-33	43217	Freight Routing Clerk
4321-36	43217	Freight Traffic Clerk
9333-01	New	Freight Worker
2711-06	14113	Front Desk Executive
1411-10	14113	Front Desk Manager
4224-06	42266	Front Office Assistant
1411-11	14113	Front Office Manager
2432-19	42266	Front Office Officer
4224-08	42266	Front Office Personnel
4224-05	42265	Front Office Receptionist
4224-07	42266	Front Office Supervisor
7514-03	75143	Fruit Juice Maker
9211-13	New	Fruit Picker
7514-01	75141	Fruit Preserver
3117-17	New	Fuel Pump Technician
2145-07	21452	Fuel Technologist
7634-06	75443	Fumigation Operator, Service
7634-08	75443	Fumigation Operator, Soil
7634-07	75443	Fumigation Operator, Weed
7634-02	New	Fumigator
1211-09	12113	Fund Manager
6129-04	New	Fur Farmer (Non-Domesticated Animals)

MASCO 2013	MASCO 2008	JOB TITLE
6224-03	New	Fur Trapper
8121-01	New	Furnace Operator
8121-08	81213	Furnace Operator, Metal Case-Hardening
8121-09	81213	Furnace Operator, Metal Hardening
8121-12	81213	Furnace Operator, Metal Heat-Treating
8121-05	81213	Furnace Operator, Metal Melting
8121-06	81213	Furnace Operator, Metal Melting (Blast-Furnace)
8121-07	81213	Furnace Operator, Metal Reheating
8121-10	81213	Furnace Operator, Non-Ferrous Metal Refining
8121-03	81211	Furnace Operator, Steel Converting
8121-02	81211	Furnace Operator, Steel Refining
8181-07	81842	Furnace-Operator, Annealing Glass
8181-06	New	Furnace-Operator, Glass
8181-03	81841	Furnace-Operator, Glass Production
8181-13	81845	Furnace-Operator, Glass Tempering
3632-03	34324	Furniture Designer
8219-08	New	Furniture Finisher, wood
9333-11	93339	Furniture Mover
7613-05	New	Furniture Production Machine Operator
2141-29	New	Furniture Upholstery Technologist
7621-29	New	Furrier
<b>G</b>		
3633-05	New	Gallery Technician
8122-06	81223	Galvaniser
5419-03	54191	Game Warden
1621-12	14313	Gaming Manager
7231-08	72312	Garage Mechanic
1622-04	13493	Garbage Disposal System Manager
6113-01	92141	Gardener
2163-06	21632	Garment Designer
3132-03	31322	Gas Compressor Operator
2146-19	21452	Gas Engineer
3134-13	31349	Gas Liquefaction Plant Operator
3134-06	31344	Gas Plant Operator
7212-07	72127	Gas Tungsten Arc Welder
2144-25	21445	Gas Turbine Engineer
8312-07	83126	Gateman, Railway
6341-10	New	Gatherer, Coconut Sap
6341-11	New	Gatherer, Honey
6341-05	63406	Gatherer, Seaweed
6341-03	63404	Gatherer, Shellfish
6341-06	63407	Gatherer, Wild Fruit, Herbs and Vegetables
7313-11	73137	Gem Polisher
7313-08	73134	Gem Setter
7313-07	73133	Gem Slicer
2823-05	New	Genealogist
9622-05	96299	General Worker
4111-19	New	General Administrative Assistant
1222-02	12222	General Affairs Manager
9621-03	96218	General Assistant (Notice Boy), Grade 1
5414-04	96293	General Assistant (Security Guard), Grade 1
5414-05	MIDA	General Assistant (Security), Grade 1
9621-05	MIDA	General Assistant (Support), Grade 1
4223-07	New	General Assistant (Telephone Operator)
9621-06	SPAD	General Assistant, Grade L3
8132-01	New	General Assistant, Photography
0311-01	New	General Duty Pilot Branch Officer
4132-05	New	General Information Technology Assistant (Data Processing Machine Operator)
3312-06	33122	General Ledger Officer
1121-21	New	General Manager
2211-17	New	General Medical Practitioner



MASCO 2013	MASCO 2008	JOB TITLE
9621-01	96217	General Office Assistant, Grade N1
4111-09	41101	General Office Clerk
0121-07	New	General Services Corps Officer
4131-09	New	General Typing Assistant
8322-02	83227	General Worker (Driver), Grade 1
8322-03	MIDA	General Worker (Driver), Grade 1
9622-03	96299	General Worker (General Services), Grade 1
9622-01	96291	General Worker, Grade R1
3131-12	New	Generating Station Operator
2131-28	21316	Geneticist
2131-30	21313	Geneticist, Animal
2131-29	21312	Geneticist, Plant
3212-06	32121	Genetics Technician
2114-03	21138	Geochemical Officer, Grade C41
2113-31	New	Geochemist
2165-13	21658	Geodesic Surveyor
2114-21	21146	Geodesist
2822-06	26324	Geographer
2113-33	New	Geological 2D/3D Reservoir Modeller
3111-02	31177	Geological Assistant, Grade C17
3111-19	31116	Geological Laboratory Assistant
2114-20	21145	Geological Oceanographer
3111-18	31116	Geological Technician
2114-07	21141	Geologist
2114-08	21142	Geologist, Engineering
2114-16	21145	Geologist, Marine
2114-30	21149	Geologist, Micropalaeontology
2114-09	21143	Geologist, Mining
2114-17	21145	Geologist, Oceanography
2114-11	21144	Geologist, Oil
2114-31	21149	Geologist, Palaeontology
2114-12	21144	Geologist, Petroleum
2114-13	21144	Geologist, Petrology
2114-32	21149	Geologist, Stratigraphy
2114-01	21148	Geology Officer (Geophysics/ Geology), Grade C41
2114-25	21146	Geomagnetician
2114-26	21146	Geomorphologist
2114-19	21145	Geophysical Oceanographer
2114-06	21141	Geophysicist
2114-22	21146	Geophysicist, Geomagnetic
2114-23	21146	Geophysicist, Geomorphology
2114-27	21147	Geophysicist, Hydrology
2114-15	21145	Geophysicist, Oceanography
2114-24	21146	Geophysicist, Seismology
3111-07	31111	Geophysics Technician
2165-01	21654	Geospatialist, Grade J41
2142-39	New	Geotechnical Engineer
3112-16	New	Geotechnical Technician
2264-11	New	Geriatric Physical Therapist
7315-02	73151	Glass Bender
7315-03	73151	Glass Blower
7315-01	73152	Glass Blower, Grade N17
7315-04	73153	Glass Cutter
7315-09	73158	Glass Finisher
7315-10	73159	Glass Frame Fabricator
7315-07	73156	Glass Grinder
7315-08	73157	Glass Lens Moulder
7315-06	73155	Glass Polisher
2141-17	21416	Glass Technologist
7125-01	New	Glazier
7125-02	71251	Glazier, Building
7125-04	71253	Glazier, Leaded-Glass
7125-05	71254	Glazier, Patent Roofing

MASCO 2013	MASCO 2008	JOB TITLE
7125-06	71255	Glazier, Plate-Glass
7125-07	New	Glazier, Roofing
7125-03	71252	Glazier, Vehicle
7313-06	73132	Gold Grader
7313-13	New	Gold Rolling Mill Worker
7313-02	73131	Goldsmith
3621-09	New	Golfer
9621-16	83506	Goods Carrier
3716-04	33562	Government Administration Inspector
2425-13	New	Government Administrative Executive
2425-12	33434	Government Executive Officer
1112-11	New	Governor
7515-13	75159	Grader , Paddy
7515-10	75156	Grader, Vegetable
7515-19	75159	Grader, Bird's Nest
7515-18	75159	Grader, Egg
7633-01	75431	Grader, Fibre
7515-16	75159	Grader, Fish
7515-03	New	Grader, Food
7515-09	75156	Grader, Fruit
6211-10	62111	Grader, Log
7515-08	75155	Grader, Meat
7515-12	75158	Grader, Oil
6111-17	31425	Grader, Oil Palm
7515-17	75159	Grader, Oil Palm
7113-06	71133	Grader, Stone
7516-01	75161	Grader, Tobacco
7611-05	75214	Grader, Veneer
7611-04	75213	Grader, Wood
4321-39	43218	Grading Clerk
2331-01	23303	Graduate Education Service Officer, Grade DG41
2331-03	23301	Graduate Teacher Officer
2166-07	34321	Graphic Artist
2166-04	21665	Graphic Designer
2166-15	New	Graphics Creator
2166-21	New	Graphics Illustrator
9214-01	92142	Grass Cutter
5163-06	93133	Grave Digger
7322-09	New	Gravure Press Operator
8161-27	81603	Grinder, Feed
7113-08	71136	Grinder, Stone
5221-02	New	Grocer
2411-17	24116	Group Accountant
2166-16	New	Group Lead Graphic Artist
3622-21	34229	Group Training Instructor & Coordinator
6111-07	61111	Grower, Abaca
6112-07	61125	Grower, Cluster Fruit
6112-02	61122	Grower, Coco
6111-03	61117	Grower, Coconut
6112-05	61124	Grower, Coffee
6111-08	61111	Grower, Dragon Fruit
6111-01	New	Grower, Field Crop
6112-06	61125	Grower, Grape
6111-10	61112	Grower, Intercropping
6111-04	61117	Grower, Oil Palm
6111-11	61114	Grower, Paddy
6111-09	61111	Grower, Pineapple
6112-04	61123	Grower, Pomegranate
6111-02	61116	Grower, Rubber
6112-01	61121	Grower, Shrub Trees
6112-03	61122	Grower, Tea
6111-20	New	Grower, Tobacco
5414-10	54145	Guard

MASCO 2013	MASCO 2008	JOB TITLE
5414-06	54141	Guard, Gambling Activities
5414-08	54141	Guard, Industrial Warehouse Department
5414-09	54141	Guard, Private Security
5169-04	New	Guest Relations Officer
4224-09	42267	Guest Service Agent
2711-05	New	Guest Service Executive
2711-01	27114	Guest Service Officer
2711-03	27112	Guest, Food and Beverage Service Executive
1411-08	14111	Guest-House Manager
3135-02	31351	Guide Setter, Metal
7222-09	72226	Gunsmith
2212-12	22127	Gynaecologist
<b>H</b>		
3212-07	32121	Haematology Technician
5141-05	New	Hair Care Specialist
5141-04	51413	Hair Stylist
5141-02	51411	Hairdresser
7221-03	72212	Hammersmith
9412-02	91123	Hand Dish Washer
9329-06	93299	Hand Mixer
7318-04	New	Handicraft Worker, Carpets
7318-05	New	Handicraft Worker, Leather
7317-06	73172	Handicraft Worker, Reed Weaving
7317-07	73172	Handicraft Worker, Stone Articles
7318-06	New	Handicraft Worker, Textile
7317-03	73173	Handicraft Worker, Wooden Articles
9333-05	93332	Handler, Cargo Freight Product
9333-10	93337	Handler, Material
2619-10	26198	Handwriting Expert
9313-06	93136	Handyman, Building Construction
9622-06	96222	Handyperson
1121-10	11201	Harbour Manager
2172-07	21723	Harbour Master
2152-33	New	Hardware Board Design Engineer
3511-21	New	Hardware Technician
3144-05	31442	Hatchery Assistant
3144-03	31442	Hatchery Supervisor
3144-02	31442	Hatchery Technician
6123-09	61299	Hatchery Worker
9521-03	New	Hawker
5212-01	52121	Hawker (Food)
3257-28	New	Hazardous Waste Inspector
2263-04	New	Hazardous Waste Management Technologist
1615-08	13452	Head of Faculty
1112-17	11121	Head of Government Department
1615-04	13452	Head Teacher
1113-01	11135	Headman, Grade NP27
5321-01	JPA	Health Assistant, Grade U3
9625-01	53218	Health Assistant, Grade U3
1612-11	22655	Health Educator
3252-05	New	Health Information Clerk
3257-45	New	Health Inspector
1612-03	13422	Health Manager
2211-19	22655	Health Officer
3257-29	New	Health Standards Inspector
2264-10	New	Health Therapist
2212-02	22121	Heart Specialist
3132-06	31325	Heating and Ventilation Equipment Operator
2144-11	21444	Heating Ventilation Air-Conditioning and Refrigeration Engineer
8131-08	81312	Heat-Treating Plant Operator, Chemical Processes
8189-04	81892	Heavy Machinery Operator

MASCO 2013	MASCO 2008	JOB TITLE
4214-07	42145	Heavy Vehicle Rental Clerk
7232-04	New	Helicopter Mechanic
3151-11	New	Helicopter Technician
8351-01	83501	Helmsman
5121-08	51201	Helper, Barbecue
9111-04	91111	Helper, Domestic
9111-05	91111	Helper, Housekeeper
2231-07	New	Herbal Medicine Practitioner
3231-08	New	Herbalist
3141-15	New	Herbarium Technician
3142-15	New	Herd Tester
2131-33	21313	Herpetologist
6211-06	62111	High Climber, Logging
1112-29	11123	High Commissioner of Government
3113-04	31132	High Voltage Electrical Engineering Technician
7412-04	74121	High Voltage Restriction Chargeman
2311-09	23414	Higher Learning Education Officer, Grade DH29
2311-08	23305	Higher Learning Education Officer, Grade DH41
2311-06	23304	Higher Learning Education Service Officer, Grade DG41
3511-19	New	High-Speed Computer Printer Operator
5419-13	New	Highway Patrol
2131-07	21316	Histologist
2131-08	21312	Histologist, Plant
3212-08	32121	Histology Technician
2134-20	21347	Histopathologist
2823-03	26332	Historian
3621-05	New	Hockey Player
9313-01	93131	Hod Carrier
5321-05	53211	Home Care Assistant
2821-11	26355	Home Economist
2231-04	32306	Homeopath
3132-11	31329	Hopper Operator
3623-05	34237	Horse Riding Instructor
2848-04	26584	Horse Trainer
3142-16	New	Horticultural Technical Officer
1311-04	New	Horticulture Manager
3142-08	31424	Horticulture Technician
6113-03	61131	Horticulturist
2133-06	21333	Horticulturist
1612-04	13422	Hospital Administrator
3341-03	33411	Hospital Admission Clerical Supervisor
4229-01	42291	Hospital Admissions Clerk
5321-07	53214	Hospital Aide
3256-03	32531	Hospital Assistant
2265-03	22651	Hospital Dietician
2262-06	22624	Hospital Pharmacist
3344-03	New	Hospital Ward Secretary
1411-03	14111	Hostel Manager
1411-02	14391	Hostel Manager, Grade N41
5153-01	51532	Hostel Supervisor, Grade N17
8122-04	81222	Hot-Dip Plater
5151-01	51511	Hotel and Lodging Banquet Supervisor
5151-02	51511	Hotel and Lodging Floor Supervisor
3257-30	New	Hotel and Restaurant Inspector
2711-04	New	Hotel Concierge Executive
4224-11	42242	Hotel Front Desk Clerk
4321-28	43216	Hotel Kitchen Clerk
4321-27	43216	Hotel Linen Supply and Lodging Clerk
1411-01	14111	Hotel Manager
2711-02	27115	Hotel Operations Executive
4224-10	42241	Hotel Receptionist
8121-04	81212	Hot-Roller Operator, Steel
7111-01	71112	House Builder

MASCO 2013	MASCO 2008	JOB TITLE
5152-04	51525	House Steward, Private
5151-06	51515	Housekeeper (Hotel)
5151-05	51513	Housekeeper Executive
5152-01	New	Housekeeper, Private
5151-09	New	Housekeeping and Catering Service Supervisor
9112-08	New	Housekeeping and Catering Service Workers
1622-10	New	Housekeeping Manager
1622-08	14322	Housekeeping Service Manager
5151-03	51512	Housekeeping Supervisor
5151-08	51524	Housekeeping Supervisor, Public Area
5152-06	51524	Housekeeping Worker, Private
5152-05	51524	Housekeeping Worker, Private Room
9112-06	51524	Housekeeping Worker, Public Area
9111-03	91111	Housemaid
1614-06	New	Housing Service Manager
2171-04	21714	Hovercraft Architect
5112-05	51121	Hovercraft Conductor
2172-04	21722	Hovercraft Pilot
2423-16	New	Human Resource Analyst
4416-11	New	Human Resource Assistant
2423-18	New	Human Resource Consultant
2423-17	New	Human Resource Coordinator
2423-03	24231	Human Resource Executive
2423-12	New	Human Resource Expert
1212-01	12124	Human Resource Manager
3341-09	33412	Human Resource Supervisor
2831-06	26412	Humorist
6224-01	62241	Hunter
2144-34	New	Hydraulic Design Engineer
3115-23	31158	Hydraulic Hose Technician
2131-14	21311	Hydrobiologist
2111-09	21112	Hydrodynamicist
3131-08	New	Hydroelectric Power Plant Operator
3131-03	31313	Hydroelectric Station Operator
2114-28	21147	Hydrogeologist
2165-14	21658	Hydrographic Surveyor
2114-29	21147	Hydrologist
6113-04	61131	Hydroponics Grower
3255-04	New	Hydrotherapist
2514-26	New	Hypertext Preprocessor (PHP)
2512-15	New	Hypertext Preprocessor (PHP) Developer
<b>I</b>		
2131-34	21313	Ichthyologist
1511-11	New	ICT Development Manager
2434-08	33227	ICT Sales Application Engineer
2166-11	New	Illustrator
2826-05	26363	<i>Imam</i>
5415-01	54151	Immigration Officer, Grade KP17
2131-03	21316	Immunologist
2845-02	26551	Impersonator
4321-38	43218	Import-Export Clerk
2522-23	New	Inbound Technical Support Representative
3132-12	New	Incinerator Operator
3132-04	31323	Incinerator Plant Operator
4132-02	41323	Index Clerk
2141-13	21414	Industrial Efficiency Engineer
2141-03	21412	Industrial Engineer
2149-23	21415	Industrial Health and Safety Engineer
2149-24	21415	Industrial Health Engineer
2263-13	New	Industrial Health Officer
3257-31	New	Industrial Hygiene Inspector

MASCO 2013	MASCO 2008	JOB TITLE
3112-04	31121	Industrial Instrument Technician
5419-06	54196	Industrial Investigator
2141-05	21412	Industrial Layout Engineer
2144-05	21442	Industrial Machinery and Tool Engineer
2221-22	32213	Industrial Nurse
2262-04	22622	Industrial Pharmacist
3631-14	New	Industrial Photographer
2163-02	21631	Industrial Product Designer
3719-01	44162	Industrial Relations Assistant, Grade S17
2432-05	24321	Industrial Relations Executive
1212-03	12122	Industrial Relations Manager
2919-08	24324	Industrial Relations Officer, Grade S41
3139-07	New	Industrial Robot Controller
2149-22	21415	Industrial Safety Engineer
2263-14	New	Industrial Safety Officer - Occupational Safety and Health
3257-32	New	Industrial Waste Control Inspector
2423-14	New	Industry Educator
1511-01	13304	InfoDesa Field (MID) Manager
2529-01	25291	Information and Communications Technology Security Executive
4222-01	42223	Information Assistant, Grade S17
4225-06	42221	Information Clerk
2432-01	24325	Information Officer, Grade S41
2812-16	26226	Information Scientist, Business Services
2812-15	26226	Information Scientist, Technical Information
2522-09	New	Information System Officer
2522-11	25221	Information System Officer
1511-12	New	Information Systems Director
1511-04	13302	Information Systems Manager
3511-14	35113	Information Systems Technician
2511-53	New	Information Technology Application Management Analyst (Siebel)
3511-15	35113	Information Technology Assistant
2511-08	25112	Information Technology Business Analyst
4132-10	41101	Information Technology Clerk
2511-07	25111	Information Technology Consultant
2511-23	New	Information Technology Consultant (.Net)
2511-29	New	Information Technology Consultant (Java)
2152-15	21523	Information Technology Engineer
2522-15	25222	Information Technology Executive
2512-17	New	Information Technology Executive (RPG)
1511-20	New	Information Technology Infrastructure Manager
1511-05	13302	Information Technology Manager
2522-01	25222	Information Technology Officer, Grade F41
1511-21	New	Information Technology Programme Manager
2514-04	25141	Information Technology Programmer
1511-19	New	Information Technology Project Manager
2511-09	25147	Information Technology Researcher
1511-23	New	Information Technology Resource Manager
2434-04	33227	Information Technology Sales Engineer
1511-22	New	Information Technology Sales Manager
2511-18	New	Information Technology Security Analyst
2511-24	New	Information Technology Specialist (.Net)
2511-34	New	Information Technology Specialist (Lotus Notes)
2511-48	New	Information Technology Specialist (SAP)
2511-30	New	Information Technology Specialist (Java)
2511-54	New	Information Technology Specialist (Siebel) (IT)
2522-12	25221	Information Technology Support Officer
7422-05	74223	Information Technology Support Worker
2511-32	New	Information Technology System Analyst (JDE)
2511-11	New	Information Technology System Designer
3512-03	35121	Information Technology Technician
7612-11	75229	Inlayer, Marquetry
6129-01	61295	Inseminator, Poultry
4323-10	43233	Inspector, Bus Services



MASCO 2013	MASCO 2008	JOB TITLE
4323-09	43233	Inspector, Road Transport Services
1112-07	New	Inspector-General of Police
7121-08	71217	Installer, Awning
7121-09	71219	Installer, Ceiling
7122-01	71221	Installer, Tile
7413-09	74134	Installer, Underground Cable
7413-10	74134	Installer, Underwater Cable
2261-02	22618	Instructor (Dental Nurse), Grade U41
2261-03	22619	Instructor (Dental Technician), Grade U42
2221-02	New	Instructor (Health Science), Grade U41
2269-03	22693	Instructor (Medical Laboratory Technologist), Grade U41
2264-02	22644	Instructor (Physiotherapy), Grade U41
2269-02	22692	Instructor (X-Ray Technician), Grade U41
2211-02	JPA	Instructor, Grade U41
7317-11	81514	Instructor, Spinner
7621-26	81521	Instructor, Weaving
0321-04	New	Instrument Technician
2842-03	26521	Instrumentalist
7124-09	New	Insulation Installer
7124-01	71246	Insulation Worker
7124-05	71243	Insulation Worker, Acoustical
7124-07	71244	Insulation Worker, Air-Conditioning Equipment
7124-03	71242	Insulation Worker, Boiler
7124-02	71241	Insulation Worker, Building
7124-04	71242	Insulation Worker, Pipe
7124-06	71244	Insulation Worker, Refrigeration Equipment
7124-08	71245	Insulation Worker, Sound-Proofing
3315-07	33156	Insurance Adjuster
4312-11	43128	Insurance Adjustment Assistant
1616-06	New	Insurance Agency Manager
3321-01	33211	Insurance Agent
3315-08	33157	Insurance Assessor
1616-03	13463	Insurance Branch Manager
3321-02	33212	Insurance Broker
2619-12	26198	Insurance Claim Arbitrator
4312-14	43128	Insurance Claims Assistant
4312-19	New	Insurance clerk
3321-04	New	Insurance Consultant
1211-08	12112	Insurance Manager
4312-13	43128	Insurance Policy Assistant
3321-05	New	Insurance Representative
3321-03	33213	Insurance Underwriter
4312-12	43128	Insurance Underwriting Assistant
4312-08	43128	Insurance Underwriting Clerk
4312-10	43128	Insurance Underwriting Supervisory Assistant
2511-60	New	Integrated Circuit (IC) Designer (IT)
2422-03	24223	Intelligence Officer
2361-02	New	Intensive Language Teacher
2831-21	New	Interactive Media Writer
2166-30	New	Interface Designer
2161-04	21612	Interior Architect
3632-16	34323	Interior Decorator
3632-02	34323	Interior Designer
2144-16	21445	Internal Combustion Engine Engineer
5244-09	New	Internet Salesperson
1511-13	New	Internet Service Provider
2513-02	25131	Internet/ Intranet Developer
2833-04	26432	Interpreter
2833-01	26435	Interpreter, Grade L17
2846-08	26562	Interviewer, Media
4321-29	43216	Inventory Clerk
4321-30	43216	Inventory Purchasing Clerk
3311-05	33115	Investment Broker

MASCO 2013	MASCO 2008	JOB TITLE
4312-21	43115	Investment Clerk
2413-03	New	Investment Consultant
4311-11	43112	Invoice Clerk
9121-02	91212	Ironer
3119-03	New	Irrigation Inspector, Grade J17
3142-12	61113	Irrigator
3612-01	44191	Islamic Affairs Assistant, Grade S17
2826-01	26126	Islamic Affairs Officer, Grade S41
2371-03	23702	Islamic Education Teacher
2371-01	23701	Islamic Religious Teacher
2511-06	25111	IT System Consultant
<b>J</b>		
2514-23	New	J2EE Programmer
2514-24	New	J2ME Programmer
8152-09	81524	Jacquard Card Cutter
5153-09	New	Janitor
2514-31	New	Java Analyst Programmer
2511-27	New	Java Application Consultant
2512-13	New	Java Application Developer
2511-26	New	Java Consultant
2512-14	New	Java Developer
2514-25	New	Java EE Programmer
2514-22	New	Java Programmer
2511-28	New	Java Programmer Analyst
2511-33	New	JD Edwards (JDE) Application Specialist
2144-14	21445	Jet Engine Engineer
7232-10	New	Jet Engine Mechanic
3151-12	New	Jet Engine Technician
9629-01	43236	Jetty Supervisor, Grade N3
7313-01	73131	Jeweller
2163-04	34324	Jewellery Designer
7313-12	73138	Jewellery Enameller
7313-10	73136	Jewellery Engraver
7313-05	73132	Jewellery Repairer
7222-05	72223	Jig Maker and Fixture
7314-09	73145	Jiggerer, Pottery and Porcelain
2423-04	24232	Job Analyst
2423-06	24232	Job Evaluator
3333-02	33332	Job Placement Officer
3621-10	New	Jockey
7115-14	New	Joiner
7115-10	71156	Joiner, Aircraft
7115-05	71153	Joiner, Construction
7115-06	71154	Joiner, Ship
2832-07	26421	Journalist
2832-01	26423	Journalist, Grade S41
2612-01	New	Judge
2612-04	26121	Judge, Federal Court
2612-06	26121	Judge, High Court
2612-08	26124	Judge, Industrial Court
2612-03	26121	Judge, Native Court
2612-05	26121	Judge, Sessions Court
2612-07	New	Judge, Shariah Court
3622-10	34224	Judo Coach
2847-10	26575	Juggler
1111-10	New	Junior Minister
6211-02	54199	Junior Wildlife Assistant, Grade G11
2619-14	New	Jurist (except lawyer or judge)
4131-07	41311	Justowriter

MASCO 2013	MASCO 2008	JOB TITLE
<b>K</b>		
2826-06	26364	Kadhi
1113-08	11134	Kapitan
3622-11	34224	Karate Coach
5164-03	51643	Keeper in Zoo, Bird and Aquatic Parks
1112-01	New	Keeper of the Rulers' Seal
8112-09	81124	Keeper, Jig
8351-15	83506	Keeper, Light House
3622-04	54128	Kesatria Assistant, Grade S17
2399-03	24461	Kesatria Officer, Grade S41
7222-07	72225	Keysmith
8131-33	81314	Kiln Operator, Charcoal
8181-05	New	Kiln-Operator
8181-08	81843	Kiln-Operator, Brick and Tile
8131-14	81312	Kiln-Operator, Chemical Processes
8181-12	81844	Kiln-Operator, Pottery and Porcelain
8161-68	81607	Kiln-Operator, Spirit Malting
5312-04	53112	Kindergarten Assistant
5312-05	53113	Kindergarten Attendant
2342-02	23421	Kindergarten Teacher
5312-06	53114	Kindergarten Worker
5211-03	52113	Kiosk Salesperson
2712-03	27117	Kitchen Administrator
9412-03	New	Kitchen Assistant
3641-13	34348	Kitchen Coordinator
9412-01	94121	Kitchen Helper
9412-04	New	Kitchen Porter
7224-12	New	Knife Sharpener
7318-09	New	Knitter
7621-25	75319	Knitter, Hand
<b>L</b>		
9321-02	93212	Labeller (Hand)
3111-23	New	Laboratory Assistant
3111-01	31114	Laboratory Assistant, Grade C17
2263-02	New	Labour Affairs Officer - Occupational Safety and Health
3333-03	New	Labour Contractor
2821-10	New	Labour Economist
2423-10	24233	Labour Management Relations Conciliator
2263-05	New	Labour Standards Officer - Occupational Safety and Health
9216-02	New	Labourer, Aquaculture
9329-04	93294	Labourer, Assembling
9313-08	New	Labourer, Construction (Building Work)
9312-01	93121	Labourer, Construction (Civil Engineering)
9219-01	62215	Labourer, Crocodile Cage
9313-07	93137	Labourer, Demolition
9313-04	93133	Labourer, Digging
9312-06	New	Labourer, Earth-Moving
9216-01	92161	Labourer, Fishery
9215-01	92151	Labourer, Forestry
9214-06	New	Labourer, Garden
9214-07	New	Labourer, Horticultural
9215-02	92152	Labourer, Hunting
9214-05	92146	Labourer, Landscape
9313-02	93132	Labourer, Maintenance
9312-02	93122	Labourer, Maintenance (Dam)
9329-01	93291	Labourer, Manufacturing
9311-02	93111	Labourer, Mining
9214-08	New	Labourer, Nursery
9613-04	96133	Labourer, Odd-Job
9311-05	93112	Labourer, Quarry

MASCO 2013	MASCO 2008	JOB TITLE
9311-06	96297	Labourer, Sanding
9219-02	62216	Labourer, Snake Cage
9215-03	92153	Labourer, Trapping
7621-16	75319	Lace Maker, Hand
7612-17	75229	Lacquerer, Wood
5162-01	51623	Lady-in-Waiting
4111-02	41106	Land Administrative Assistant, Grade N17
2425-07	New	Land Assistant Officer (Peninsula), NT27
9313-05	93134	Land Clearer
2164-07	New	Land Planner
2132-04	21326	Land Planning Officer, Grade G41
3129-01	41108	Land Scheme Supervisor, Grade G17
2165-18	New	Land Surveyor
3521-16	35216	Land-Based Radio Equipment Technician
2162-03	21621	Landscape Architect
2162-01	21622	Landscape Architect, Grade J41
2841-06	26515	Landscape Artist
6113-07	New	Landscape Gardener
3118-02	31183	Landscape Technician, Grade J17
2919-17	26434	Language Planning Officer, Grade S41
2361-01	23601	Language Teacher, Grade DG41
2266-05	New	Language Therapist
2151-22	New	Laser Welding Cylindrical Engineer
8141-13	New	Latex Foam Machine Operator
8172-07	81722	Lathe Feeder, Veneer
8221-54	New	Lathe Machine Operator
8173-03	81733	Lathe Operator, Wood (Machine)
8172-06	81722	Lathe-Operator, Veneer Cutting
8173-01	81731	Lathe-Operator, Woodworking
1622-05	14321	Laundering, Dry-Cleaning and Ironing Manager
9111-07	91112	Laundress, Household
1622-09	New	Laundry Manager
5151-04	51512	Laundry Supervisor
3411-09	New	Law Clerk
2611-20	26111	Lawyer
2611-26	26111	Lawyer, Civil
2611-25	26111	Lawyer, Conveyancing
2611-23	26111	Lawyer, Criminal
2611-24	26111	Lawyer, Litigation
2611-22	26111	Lawyer, Shariah
2166-36	New	Layout Artist
2152-38	New	Layout Integrated Circuit (IC) Designer
9511-06	New	Leaflet Distributor
1212-08	New	Learning & Organisation Development Manager
2392-07	New	Learning Disability Special Education Teacher
2392-08	New	Learning Support Teacher
2141-16	21416	Leather Technologist
2311-10	23101	Lecturer
4311-06	43111	Ledger Book-Keeper
4311-03	43111	Ledger Clerk
2611-18	26111	Legal Adviser
2611-04	26114	Legal Adviser, Grade L41
2611-06	26116	Legal Aid Bureau Officer, Grade L41
1617-01	14331	Legal and Risk Management Manager
3411-06	New	Legal Assistant
2611-05	26115	Legal Drafter, Grade L41
2611-21	26111	Legal Executive
1617-02	New	Legal Manager
2611-01	New	Legal Officer, Grade L41
3342-02	33421	Legal Secretary
6115-02	61152	Lentil Grower
2833-06	26433	Lexicographer
2812-09	26221	Librarian

MASCO 2013	MASCO 2008	JOB TITLE
2812-11	26223	Librarian, Audio-Visual
2812-12	26223	Librarian, Film
2812-01	26227	Librarian, Grade S41
4411-05	44115	Library Administrative Assistant
3633-08	44112	Library Assistant
3633-04	44114	Library Assistant, Grade S17
4411-03	44111	Library Clerk
2812-08	26221	Library Executive
4411-04	44113	Library File Compiler
1624-01	New	Library Manager
3633-06	New	Library Technician
3714-04	33541	Licensing Assistant
3714-03	33541	Licensing Inspector
2914-05	33541	Licensing Officer
3611-23	New	Life Skills Instructor
8351-14	83506	Life-Boatman
5419-09	54196	Lifeguard
5419-01	54191	Lifeguard, Grade N1
2144-06	21442	Lift Engineer
7412-19	New	Lift Mechanic
3153-04	31532	Light Rail Transit Supervisor
8351-12	83505	Lighterman
3639-05	New	Lighting Technician
8189-10	96297	Line Leader
9111-10	51523	Linen Housekeeping Attendant
3622-22	34229	Linesman
3132-13	New	Liquid Waste Process Operator
2411-14	24115	Liquidator
3339-02	33391	Literary Agent
3411-12	44199	Litigation Clerk
9212-02	92121	Livestock Farm Cleaner
9212-01	92121	Livestock Farm Labourer
9212-03	92121	Livestock Farm Labourer, Dairy
9212-04	92121	Livestock Farm Labourer, Poultry
3719-10	New	Livestock Inspector
1311-08	13112	Livestock Manager
2179-01	21791	Load Sheet Officer
9333-12	93339	Loader Worker
9333-07	93334	Loader, Aircraft
9333-08	93335	Loader, Boat (Liquid and Gases)
9333-06	93333	Loader, Railway and Road Vehicle
3312-02	33121	Loan Officer
7222-08	72225	Locksmith
8311-04	83111	Locomotive Driver
8311-02	83117	Locomotive Driver, Grade AA13
2144-15	21445	Locomotive Engine Engineer
3153-03	31532	Locomotive Supervisor
6211-09	62111	Log Feller
2182-09	21826	Log Officer
3122-12	31228	Log Yard Supervisor
3119-29	31225	Log Yard Technician
6211-03	62111	Logger
6211-07	62111	Logger, Underwater
6211-23	New	Logging Climber
3143-02	62116	Logging Instructor, Grade G17
2511-61	New	Logic Designer (IT)
3129-05	31294	Logistic Supervisor
4323-01	43231	Logistics Clerk
2179-03	New	Logistics Executive
1324-13	13247	Logistics Manager
0321-20	New	Logistics System Technician
0321-18	New	Logistics Technician
7621-22	75319	Loom Threader, Hand

MASCO 2013	MASCO 2008	JOB TITLE
2512-18	New	Lotus Notes Developer (IT)
2514-11	New	Lotus Notes Programmer
3715-01	54125	Low-ranking officer and Constable, Grade YA1
5412-02	54127	Low-Ranking Police Officer and Aboriginal Constable, Grade YP1
5412-01	54126	Low-Ranking Police Officer and Auxiliary Constable, Grade YT1
1113-13	New	<i>Luak</i>
2144-23	21445	Lubrication Engineer
8219-11	New	Luggage Finisher
2831-12	26414	Lyricist
<b>M</b>		
8159-02	81592	Machine Cutter, Leather Garments
8189-01	New	Machine Operator
8114-08	81143	Machine Operator, Abrasive Coating
8181-21	81849	Machine Operator, Abrasives Mixing
8131-56	81317	Machine Operator, Ammunition Products
8114-04	81142	Machine Operator, Asbestos
8114-05	81142	Machine Operator, Asbestos-Cement Product
8156-06	New	Machine Operator, Baggage Production
8121-22	81216	Machine Operator, Barbed-Wire
8161-82	81609	Machine Operator, Bean Curd Production
8156-08	New	Machine Operator, Belt Production
8189-05	81893	Machine Operator, Bending
7323-14	81922	Machine Operator, Book Embossing
7323-13	81921	Machine Operator, Bookbinding
8181-24	81849	Machine Operator, Bottle Production
8183-10	82193	Machine Operator, Bottling
8151-08	81515	Machine Operator, Braid Production
8161-39	81604	Machine Operator, Bread Production
8161-73	81607	Machine Operator, Brew
8181-23	81849	Machine Operator, Brick-and-Tile Production
8161-15	81602	Machine Operator, Butter Products
8189-08	82196	Machine Operator, Cable and Rope Splicing
8131-51	81317	Machine Operator, Candle Production
8183-09	82192	Machine Operator, Capping
8143-06	81435	Machine Operator, Cardboard Presser
8171-08	81718	Machine Operator, Cardboard Production
8143-07	81435	Machine Operator, Cardboard Products
8152-03	81521	Machine Operator, Carpet Weaving
8143-01	81431	Machine Operator, Carton and Paper Box Production
8114-02	81141	Machine Operator, Cast Concrete Product
8122-09	81225	Machine Operator, Cast Metal Article Finishing
8114-06	81143	Machine Operator, Cast Stone
8143-03	81432	Machine Operator, Cellophane Bag Production
8114-03	81141	Machine Operator, Cement Product
8121-16	81214	Machine Operator, Centrifugal Casting
8181-09	81844	Machine Operator, Ceramics Production
8161-33	81604	Machine Operator, Cereal Production
8131-45	81317	Machine Operator, Chemical and Related Material Washing
8131-02	81311	Machine Operator, Chemical Process Mixing and Blending
8131-04	81311	Machine Operator, Chemical Process Pulverising
8171-02	81712	Machine Operator, Chipping
8131-50	81317	Machine Operator, Chlorine Gas Production
8161-34	81604	Machine Operator, Chocolate Production
8161-74	81608	Machine Operator, Cigar Production
8161-75	81608	Machine Operator, Cigarette Production
8181-01	81811	Machine Operator, Clay Mixing
8159-08	81597	Machine Operator, Cloth Folding
8171-11	81718	Machine Operator, Coating
8161-78	81609	Machine Operator, Cocoa-Bean Processing
8161-87	New	Machine Operator, Coconut Peeler
8161-79	81609	Machine Operator, Coffee-Bean Processing



MASCO 2013	MASCO 2008	JOB TITLE
8131-41	81316	Machine Operator, Coke Production
8114-01	81141	Machine Operator, Concrete Mixing
8161-35	81604	Machine Operator, Confectionery Production
8183-11	82193	Machine Operator, Container Filling
8151-05	81512	Machine Operator, Cotton-Mixing
8161-14	81602	Machine Operator, Dairy Product Churning
8161-11	81602	Machine Operator, Dairy Product Processing
8131-40	81316	Machine Operator, Detergent Production
8114-09	New	Machine Operator, Diamond Polishing
8121-14	81214	Machine Operator, Die-Casting
8111-03	New	Machine Operator, Drilling
8154-06	81546	Machine Operator, Dry-Cleaning
8154-02	81542	Machine Operator, Dyeing
8181-17	81847	Machine Operator, Engraving Glass
8143-04	81432	Machine Operator, Envelope Production
8131-46	81317	Machine Operator, Explosives Production
8153-05	81525	Machine Operator, Fabric Repairer
8152-11	New	Machine Operator, Fabric Weaving
8161-77	81609	Machine Operator, Feed Mixing
8181-25	81849	Machine Operator, Fibre Glass Production
8151-06	81512	Machine Operator, Fibre Preparation
8132-08	81323	Machine Operator, Film Paper Production
8132-05	81323	Machine Operator, Film Processing Machine
8131-47	81317	Machine Operator, Fireworks Production
8161-09	81601	Machine Operator, Fish Canning
8161-06	81601	Machine Operator, Fish Food Production
8161-02	81601	Machine Operator, Fish Processing
8161-51	81605	Machine Operator, Food Canning
8161-03	81601	Machine Operator, Food Processing
8156-01	81561	Machine Operator, Footwear Production
8156-05	New	Machine Operator, Footwear Production for Special/ Disabled Person
8161-48	81605	Machine Operator, Fruit Juice Production
8173-07	81737	Machine Operator, Furniture Production
8159-01	81591	Machine Operator, Garment Cutting
8181-20	81849	Machine Operator, Glass and Ceramics Kiln
8181-15	81846	Machine Operator, Glass Blowing
8181-16	81847	Machine Operator, Glass Etching
8181-02	81812	Machine Operator, Glass Mixing
8181-22	81849	Machine Operator, Glass Pressing
8181-26	81849	Machine Operator, Glaze Production
8131-03	81311	Machine Operator, Glue-Mixing
8131-48	81317	Machine Operator, Halogen Gas Production
8156-07	New	Machine Operator, Handbag Production
8156-09	New	Machine Operator, Harness
8159-04	81594	Machine Operator, Hat Making
8155-03	81553	Machine Operator, Hide Dehairing
8155-02	81552	Machine Operator, Hide Fleshing
8155-01	81551	Machine Operator, Hide Processing
8131-49	81317	Machine Operator, Hydrogen Gas Production
3132-10	31329	Machine Operator, Ice Production
8161-12	81602	Machine Operator, Ice-Cream Production
8172-12	81726	Machine Operator, Incising (Wood Preserving)
8121-26	81216	Machine Operator, Insulating
8189-06	82194	Machine Operator, Insulation
8143-05	81434	Machine Operator, Joss Paper Production
8152-04	81522	Machine Operator, Knitting
8183-04	81834	Machine Operator, Labelling
8152-10	81525	Machine Operator, Lace Production
8157-02	81572	Machine Operator, Laundering
8157-03	81573	Machine Operator, Laundry Presser
8131-55	81317	Machine Operator, Lead Production
8155-05	81556	Machine Operator, Leather Cutting
8159-06	81595	Machine Operator, Leather Pattern-Making

MASCO 2013	MASCO 2008	JOB TITLE
8131-52	81317	Machine Operator, Linoleum Production
8161-65	81607	Machine Operator, Liquor Production
8161-45	81605	Machine Operator, Margarine Processing
8131-53	81317	Machine Operator, Match Production
8159-05	81594	Machine Operator, Mattress Production
8161-08	81601	Machine Operator, Meat Canning
8161-01	81601	Machine Operator, Meat Processing
8121-15	81214	Machine Operator, Metal Casting
8122-03	81222	Machine Operator, Metal Dipping
8121-13	81214	Machine Operator, Metal Drawing
8122-01	81221	Machine Operator, Metal Electroplating
8122-05	81223	Machine Operator, Metal Galvanising
8122-12	81226	Machine Operator, Metal Spraying
8161-13	81602	Machine Operator, Milk Powder Production
8111-04	81111	Machine Operator, Mine Drilling
8112-05	81122	Machine Operator, Mineral Milling
8131-42	81316	Machine Operator, Mosquito Coil Production
8161-20	81603	Machine Operator, Mustard Seed Milling
8152-05	81522	Machine Operator, Net Production
8161-36	81604	Machine Operator, Noodle Production
8161-90	New	Machine Operator, Nut Peeler
8161-44	81605	Machine Operator, Nut Processing
8161-47	81605	Machine Operator, Oil and Fat Refining
8156-02	81562	Machine Operator, Orthopaedic Footwear Production
8183-05	81835	Machine Operator, Packing
8131-01	81311	Machine Operator, Paint-Mixing
8143-09	81432	Machine Operator, Paper Bag Production
8171-10	81718	Machine Operator, Paper Cutting
8143-02	81431	Machine Operator, Paper Products
8171-09	81718	Machine Operator, Papermaking
8161-37	81604	Machine Operator, Pasta Production
8161-38	81604	Machine Operator, Pastry Production
8131-54	81317	Machine Operator, Pencil Production
8131-43	81316	Machine Operator, Pharmaceutical Products
8132-06	81323	Machine Operator, Photograph Enlarging
8132-07	81323	Machine Operator, Photographic Film Production
8132-09	81323	Machine Operator, Photographic Plate Production
8132-10	81323	Machine Operator, Photographic Products
8132-03	81321	Machine Operator, Photography Development
8132-02	81321	Machine Operator, Photography Printing
8161-89	New	Machine Operator, Pineapple Peeler
8142-12	New	Machine Operator, Plastic Cable
8142-04	81425	Machine Operator, Plastic Compression Moulding
8142-07	81427	Machine Operator, Plastic Embossing
8142-03	81423	Machine Operator, Plastic Extruding
8142-01	81421	Machine Operator, Plastic Mixing
8142-08	81428	Machine Operator, Plastic Production
8142-09	81429	Machine Operator, Plastic Products
8142-10	81433	Machine Operator, Plastic Straw Production
8142-06	81427	Machine Operator, Plastic Tableting
8161-88	New	Machine Operator, Potato Peeler
8181-10	81844	Machine Operator, Pottery and Porcelain
8181-11	81844	Machine Operator, Pottery and Porcelain Casting
8161-81	81609	Machine Operator, Powdered Soup Production
8183-07	New	Machine Operator, Press
8132-25	New	Machine Operator, Printing/Photography (Colour)
8151-07	81513	Machine Operator, Rope-Laying
8141-04	81414	Machine Operator, Rubber Calender
8141-05	81415	Machine Operator, Rubber Cutting
8141-02	81412	Machine Operator, Rubber Extruding
8141-22	93228	Machine Operator, Rubber Laminating
8141-01	81411	Machine Operator, Rubber Milling
8141-09	81417	Machine Operator, Rubber Products

MASCO 2013	MASCO 2008	JOB TITLE
8141-08	81417	Machine Operator, Rubber Stamp Production
8156-04	New	Machine Operator, Safety Footwear Production
8161-40	81604	Machine Operator, Sago Production
8122-07	81224	Machine Operator, Sandblaster Equipment
8161-50	81605	Machine Operator, Sauce Production
8161-07	81601	Machine Operator, Sausage Production
8132-04	81321	Machine Operator, Scanning and Filming
8183-08	82192	Machine Operator, Sealing
8121-23	81216	Machine Operator, Seamless Pipe and Tube
8161-05	81601	Machine Operator, Shrimp Paste Production
8189-07	82196	Machine Operator, Silicon Chip Production
8161-04	New	Machine Operator, Slaughtering
8161-63	81607	Machine Operator, Soft Drink Production
8161-64	81607	Machine Operator, Spirit Brewing
8161-66	81607	Machine Operator, Spirit Distilling
8156-03	81563	Machine Operator, Sports Footwear Production
8154-03	81543	Machine Operator, Starch
8112-03	81121	Machine Operator, Stone Crushing
8112-04	81122	Machine Operator, Stone Milling
8114-10	New	Machine Operator, Stone Polishing
8112-01	81121	Machine Operator, Stone Processing
8112-02	81121	Machine Operator, Stone Splitting
8155-04	81554	Machine Operator, Tanning
8161-80	81609	Machine Operator, Tea-Leaf Processing
8114-07	81143	Machine Operator, Terrazzo Tile
8154-01	81541	Machine Operator, Textile Bleaching
8159-03	81593	Machine Operator, Textile Cutting
8154-05	81545	Machine Operator, Textile Dyeing
8157-01	81571	Machine Operator, Textile Fibre Dyeing
8159-07	81596	Machine Operator, Textile Pattern-Making
8154-08	81544	Machine Operator, Textile Shrinking
8152-07	81523	Machine Operator, Textile Size
8151-01	81511	Machine Operator, Thread and Yarn Twisting
8161-76	81608	Machine Operator, Tobacco Production
8131-44	81316	Machine Operator, Toiletry Products
8342-02	83422	Machine Operator, Trench Digging
8141-06	81416	Machine Operator, Tyre Production
8142-05	81426	Machine Operator, Vacuum Plastic-Forming
8161-49	81605	Machine Operator, Vegetable Juice Production
8161-46	81605	Machine Operator, Vegetable Processing
8161-62	81607	Machine Operator, Vinegar Making
8161-31	81604	Machine Operator, Wafer-Baking
8152-01	81521	Machine Operator, Warping Beam (Textile Weaving)
8154-04	81544	Machine Operator, Washing
8152-02	81521	Machine Operator, Weaving
8113-06	81133	Machine Operator, Well Boring Equipment
8121-25	81216	Machine Operator, Wire Drawing
8121-27	81216	Machine Operator, Wire Extruding
8121-24	81216	Machine Operator, Wire Stripping and Cutting
8173-04	81736	Machine Operator, Wood Carving
8171-04	81714	Machine Operator, Wood Grinding
8173-08	81738	Machine Operator, Wood Products
8172-11	81725	Machine Operator, Wood Seasoning
8172-13	81726	Machine Operator, Wood Treating
8173-05	81734	Machine Operator, Wood-Wool
8183-06	81836	Machine Operator, Wrapping
8161-32	81604	Machine Operator, Yeast Making
7613-10	New	Machine Set-Up Operator
7223-06	New	Machine Tool Operator
7223-05	New	Machine Tool Setter
7223-07	New	Machine Tool Setter-Operator
7224-03	72243	Machine Tool Sharpener
8351-20	New	Machine Wiper

MASCO 2013	MASCO 2008	JOB TITLE
7233-01	72331	Machinery Mechanic
3115-27	New	Machinery Technician
8173-09	New	Machinist
8173-02	81731	Machinist, Wood
2847-03	26573	Magician
2612-02	26123	Magistrate
9332-04	New	Mahout
2142-38	21429	Maintenance Engineer
2182-08	21825	Maintenance Executive
7412-14	74129	Maintenance Fitter
3129-08	31223	Maintenance Supervisor
3119-24	31223	Maintenance Technician
8141-10	81417	Maker, Air-Bag
7621-13	75317	Maker, Artificial Flower
7624-06	75345	Maker, Bedding
7623-11	New	Maker, Belt
7621-20	75319	Maker, Braided Gloves
7612-02	75221	Maker, Cabinet
7516-02	75162	Maker, Cigar
7516-03	75163	Maker, Cigarette
7612-06	75225	Maker, Clog
7612-05	75224	Maker, Coffin
7624-04	75344	Maker, Cushion
7621-14	75318	Maker, Doll and Stuffed Toy
8181-29	81849	Maker, Fibre Glass
7612-04	75223	Maker, Furniture
7622-03	75323	Maker, Garment
8181-31	81849	Maker, Glass Tube
8181-30	81849	Maker, Glaze
9329-07	93299	Maker, Hand Carton and Paper Box
7621-06	75312	Maker, Hat / Cap
8141-12	81417	Maker, Hose
8161-55	81605	Maker, Jam
7318-03	75353	Maker, Leather Goods
7623-09	New	Maker, Leather Handbag
6211-16	62113	Maker, Log-Raft
8161-71	81607	Maker, Malting Germination Equipment
7624-03	75343	Maker, Mattress
7621-21	75319	Maker, Netted Gloves
8161-56	81605	Maker, Peanut Butter
7612-09	75228	Maker, Picture Frame
7314-07	73145	Maker, Pottery and Porcelain Mould
7623-10	New	Maker, Purse
8141-11	81417	Maker, Rubber Foam
7621-17	75319	Maker, Sack
7621-18	75319	Maker, Sail, Tent and Awning
7621-27	New	Maker, Scarf
7624-05	75344	Maker, Soft Furnishing
7621-05	New	Maker, Songkok
7623-07	75336	Maker, Sports Footwear
7623-08	75336	Maker, Sports Footwear Equipment
7623-02	75332	Maker, Surgical Footwear
7621-28	New	Maker, <i>Telekung</i>
8141-07	81416	Maker, Tyre
7621-19	75319	Maker, Umbrella
7621-07	75313	Maker, Wig
7612-07	75226	Maker, Wooden Model
7612-15	75229	Maker, Wooden Sports Equipment
5142-03	51422	Make-Up Artist
3641-10	34343	Malay Cuisine Chef
2919-09	33599	Malaysian Anti-Corruption Commission Investigating Officer, Grade P41
2131-35	21313	Mammalogist
3211-05	New	Mammographer

MASCO 2013	MASCO 2008	JOB TITLE
2411-18	24116	Management Accountant
2421-06	24211	Management Consultant
2511-03	25111	Management Information System (MIS) Analyst
2152-14	21523	Management Information System (MIS) Engineer
4132-11	41102	Management Information System Clerk
3341-10	33413	Management Trainee
1121-20	New	Manager
1121-06	11201	Managing Director
1121-16	11202	Managing Director of Organisation
6111-15	31425	Mandore, Plantation
5142-04	51423	Manicurist
1321-04	New	Manufacturer
2182-01	21821	Manufacturing Executive
1321-01	13211	Manufacturing Manager
2182-10	New	Manufacturing Quality Control Executive
3122-01	31224	Manufacturing Supervisor
7323-03	73233	Map and Chart Mounter
2165-07	21651	Map Maker
7122-07	71226	Marble Cutter
7122-08	71227	Marble Polisher
7122-03	71222	Marble Setter
3622-03	34222	Marching Instructor, Grade S17
2171-06	21714	Marine Architect
3152-01	New	Marine Assistant, Grade A17
7239-01	72335	Marine Engine Mechanic
3152-05	31525	Marine Engine Technician
2171-02	21712	Marine Engineer
3115-21	31155	Marine Engineering Assistant
3115-20	31155	Marine Engineering Technician
2172-01	21727	Marine Officer, Grade A41
3521-11	35214	Marine Radio Officer
2149-18	New	Marine Salvage Engineer
2172-11	21726	Marine Superintendent (Deck)
2165-16	21658	Marine Surveyor
2919-10	24496	Maritime Enforcement Officer, Grade X13
5419-02	JPA	Maritime Enforcement Officers of Other Ranks, Grade X1
3719-03	JPA	Maritime Enforcement Officers of Other Ranks, Grade X1
6211-08	62111	Marker, Log
7222-06	72224	Marker, Metal
7213-12	72136	Marker, Sheet-Metal
7214-05	72145	Marker, Structural Metal
7612-12	75229	Marker, Woodworking
2431-07	New	Market Research Analyst
2431-02	24312	Market Research Business Analyst
4312-07	43123	Market Research Enumerator
4226-01	42271	Market Research Interviewer
1221-05	12212	Market Research Manager
5211-02	52112	Market Salesperson
5211-10	New	Market Stallholder
5211-09	New	Market Vendor
3322-14	33227	Marketing Executive
1221-03	12211	Marketing Manager
2825-05	26354	Marriage Counsellor
2264-07	22642	Mascular Therapist
2264-05	22642	Massage Therapist
3255-05	New	Massage Therapist
2846-04	26561	Master Of Ceremonies
7317-02	73176	Mat Weaver
8131-07	81311	Match Compounder, Chemical Processes
0311-05	New	Material Branch Officer
9329-11	New	Material Handler
2141-27	New	Material Specialist
3119-26	31224	Material Store Technician

MASCO 2013	MASCO 2008	JOB TITLE
4321-14	43211	Material Storekeeper
2149-19	New	Materials Engineer
3314-02	43128	Mathematical Assistant
2121-04	21201	Mathematician
2121-07	21201	Mathematician, Actuarial Science
2121-05	21201	Mathematician, Applied Mathematics
2121-06	21201	Mathematician, Pure Mathematics
2221-15	32211	Matron
5151-07	51517	Matron (Housekeeping)
1112-32	11113	Mayor
7511-05	75114	Meat Curer
7511-02	75112	Meat Cutter
7511-03	75116	Meat Slicer
7231-03	New	Mechanic
7421-05	New	Mechanic, Electronic Instrument
7233-04	72339	Mechanic, Industrial Machinery
7233-03	72339	Mechanic, Machine Tool
7233-05	72339	Mechanic, Plant Maintenance
2144-04	21441	Mechanical Engineer
2144-31	21737	Mechanical Engineer, Aeronautics
2144-30	21737	Mechanical Engineer, Aerospace
2144-28	21449	Mechanical Engineer, Agriculture
2144-17	21445	Mechanical Engineer, Automotive
2144-18	21445	Mechanical Engineer, Diesel
2144-20	21445	Mechanical Engineer, Gas Turbine
2144-07	21442	Mechanical Engineer, Instruments
2144-19	21445	Mechanical Engineer, Motor and Engine
2144-21	21712	Mechanical Engineer, Naval
2144-10	21443	Mechanical Engineer, Nuclear Power
3115-16	31151	Mechanical Engineering Assistant
3115-17	31151	Mechanical Engineering Estimator
3115-06	31151	Mechanical Engineering Technician
3115-11	31151	Mechanical Engineering Technician, Agriculture
3115-07	31151	Mechanical Engineering Technician, Industrial Machinery and Tools
3115-10	31151	Mechanical Engineering Technician, Instruments
3115-09	31151	Mechanical Engineering Technician, Lubrication
3115-08	31151	Mechanical Engineering Technician, Motors and Engines
3115-22	31156	Mechanical Engineering Technician, Ship Construction
2144-03	21441	Mechanical Engineering Technologist
2152-21	21526	Mechatronics Engineer
3115-26	31191	Mechatronics Technician
2432-12	24323	Media Planner
1612-09	New	Medical Administrator
3256-04	32531	Medical Assistant
3344-07	New	Medical Billing Secretary
2211-04	22111	Medical Doctor
2211-08	22129	Medical Doctor, Anaesthesiology
2211-10	22129	Medical Doctor, Cardiology
2211-09	22129	Medical Doctor, Gynaecology
2211-07	22129	Medical Doctor, Insurance Consultancy
2211-11	22129	Medical Doctor, Neurology
2211-12	22129	Medical Doctor, Obstetrics
2211-13	22129	Medical Doctor, Ophthalmology
2211-14	22129	Medical Doctor, Psychiatry
2211-15	22129	Medical Doctor, Radiology
5329-02	New	Medical Imaging Assistant
3344-06	New	Medical Insurance Assistant
3256-02	32531	Medical Laboratory Assistant
3212-14	New	Medical Laboratory Technician
2269-04	32124	Medical Laboratory Technologist, Grade U29
2311-02	23106	Medical Lecturer, Grade DU45
1612-06	13421	Medical Manager (Medical Administration)
3344-02	New	Medical Office Administrative Assistant



MASCO 2013	MASCO 2008	JOB TITLE
2211-05	22111	Medical Officer
0111-01	New	Medical Officer
2211-01	22112	Medical Officer, Grade UD41
2212-06	22123	Medical Oncologist
3631-11	34315	Medical Photographer
2211-06	22111	Medical Practitioner
3211-06	New	Medical Radiation Therapist
4224-02	42262	Medical Receptionist
3252-04	New	Medical Record Analyst
3252-06	New	Medical Record Clerk
3252-01	32521	Medical Record Technician
3341-07	33411	Medical Record Unit Supervisor
2264-01	22113	Medical Rehabilitation Officer, Grade U41
3212-12	32122	Medical Science Technician
3344-01	33441	Medical Secretary
1612-01	13421	Medical Service Director
3344-05	New	Medical Stenographer
3212-01	32125	Medical Technician, Grade U19
3344-09	New	Medical Transcriptionist
0221-10	New	Member of Administration and Finance
0131-14	New	Member of Armed Forces Religious Corps
0131-16	New	Member of Border Regiment
0221-08	New	Member of Communications
0221-17	New	Member of Electrical and Radio Technicians
0131-07	New	Member of General Services Corps
0221-07	New	Member of Hydrography
0221-11	New	Member of Logistics Technicians
0221-05	New	Member of Naval Provost
0221-12	New	Member of Navy Cooks
0221-13	New	Member of Officers' Mess Personnel
1111-05	11111	Member of Parliament
0221-09	New	Member of Physical Trainers
0221-16	New	Member of Power and Ordinance Electrical Technicians
0221-15	New	Member of Propulsion Marine Technicians
0131-03	New	Member of Royal Armoured Corps
0131-06	New	Member of Royal Artillery Regiment
0131-13	New	Member of Royal Electrical and Mechanical Engineer Corps
0131-05	New	Member of Royal Engineer Regiment
0131-10	New	Member of Royal Intelligence Corps
0131-11	New	Member of Royal Logistics Corps
0131-01	New	Member of Royal Malay Regiment
0131-08	New	Member of Royal Medical Corps
0131-09	New	Member of Royal Military Police Corps
0131-12	New	Member of Royal Ordnance Corps
0131-02	New	Member of Royal Ranger Regiment
0131-04	New	Member of Royal Signals Regiment
0221-03	New	Member of Submarine Warfare (Control)
0221-02	New	Member of Submarine Warfare (Sonar)
0221-01	New	Member of Surface Warfare
0131-15	New	Member of Territorial Army Regiment
0221-14	New	Member of the Brass Band
1111-14	New	Member of the Senate
1111-08	11112	Member of the State Legislative Assembly
0221-04	New	Member of Warfare Tactical Plotters
3611-24	New	Mental Health Worker
1111-11	New	Menteri Besar
9621-19	New	Messenger
9621-07	96211	Messenger, Courier
7224-10	72248	Metal Finisher
7224-01	72241	Metal Grinder
2146-02	21462	Metal Mining Engineer
7224-09	72247	Metal Polisher
3135-03	New	Metal Processing Control Operator

MASCO 2013	MASCO 2008	JOB TITLE
8221-46	82211	Metal Roller and Engraver -Printing Machine
2146-08	21465	Metal Testing Engineer
7319-03	New	Metal Toymaker
7223-01	72231	Metal Working Machine Adjuster
7223-02	72231	Metal Working Machine Operator
7223-03	72231	Metal Working Machine Setter
3117-05	31171	Metallurgical Laboratory Assistant
3117-02	31171	Metallurgical Technician
2146-09	New	Metallurgist
2146-11	21462	Metallurgist, Assayer
2146-12	21465	Metallurgist, Extractive
2146-13	21465	Metallurgist, Foundry
2146-14	21466	Metallurgist, Physics
2146-10	21462	Metallurgist, Radioactive Minerals
3117-06	31172	Metallurgy Assay Technician
7312-07	73125	Metal-Wind Instrument Maker
3111-17	31115	Meteorological Assistant
3111-03	31115	Meteorological Assistant, Grade C17
3111-28	New	Meteorological Inspector
7311-11	73117	Meteorological Instrument Maker
2112-01	21124	Meteorological Officer, Grade C41
3111-16	31115	Meteorological Technician
2112-03	21121	Meteorologist
2112-11	21127	Meteorologist, Environmental
2112-10	21126	Meteorologist, Marine
2112-12	21128	Meteorologist, Numerical Weather Prediction
2112-05	21122	Meteorologist-Climatology
2112-06	21123	Meteorologist-Weather Forecasting
9623-01	96231	Meter Reader
3119-08	31191	Method Engineering Technician
2131-04	21316	Microbiologist
2512-12	New	Microfocus Cobol Developer
2114-35	21149	Micropalaeontologist
3631-09	34314	Microphotographer
3631-10	34315	Microphotography Photographer
2144-35	New	Microprogramming Engineer
3222-03	New	Midwifery Assistant
2361-03	New	Migrant Education Teacher
6121-11	61299	Milker
8141-15	New	Mill, Rubber
8161-83	New	Miller Operator
8161-24	81603	Miller, Grain
8161-25	81605	Miller, Oil Seed
8161-26	81605	Miller, Palm Oil
8161-28	81603	Miller, Rice
8161-29	81603	Miller, Spice
8161-30	81603	Miller, Tapioca
7621-04	75312	Milliner
8161-21	81603	Milling Assistant
2845-05	New	Mime Artist
2847-05	26574	Mimic
3257-37	New	Mine Examiner
3257-36	New	Mine Safety Inspector
3121-01	31211	Mine Supervisor
2165-09	21653	Mine Surveyor
8111-01	81111	Miner
2114-02	21811	Mineral Officer, Grade C41
2114-10	21143	Mineralogist
3117-01	31176	Mines Assistant, Grade C17
3117-20	New	Mines Inspector
3117-12	31173	Mining Assistant
2146-01	21461	Mining Engineer
3117-11	31173	Mining Engineering Technician

MASCO 2013	MASCO 2008	JOB TITLE
2181-01	21812	Mining Executive
7233-10	New	Mining Machinery Fitter
7233-02	72334	Mining Machinery Mechanic
7233-11	New	Mining Machinery Repairer
1322-05	13222	Mining Manager
8111-11	New	Mining Plant Operator
1111-03	11112	Minister
6114-02	New	Mixed Crop Farmer
6114-01	61141	Mixed Crop Grower
6131-01	61301	Mixed Product Farmer (Crops and Husbandry)
2511-62	New	Mixed Signal Integrated Circuit (IC) Designer (IT)
8181-27	81849	Mixer, Clay
8181-32	81849	Mixer, Glass
8161-22	81603	Mixer, Spice
7314-03	73143	Modeller, Pottery and Porcelain
2353-01	23531	Modelling Teacher
5163-04	New	Moirologist
4211-04	42114	Money Changer
9623-02	96232	Money Collector, Vending Machine
4213-02	42132	Money-Lender
3612-02	34131	Monk
2145-26	New	Moringa Specialist
4312-29	43115	Mortgage Clerk
3312-01	33121	Mortgage Officer
5153-07	51534	Mosque Caretaker
1411-04	14111	Motel Manager
2152-30	New	Motherboard Designer
3521-05	35211	Motion Picture Assistant
2844-05	26541	Motion Picture Director
2844-06	26541	Motion Picture Photography Director
3632-18	34325	Motion Picture Set Decorator
8331-03	83314	Motor Coach Driver
2144-22	21445	Motor Engineer
7231-19	New	Motor Vehicle Engine and Fuel System Mechanic
3154-02	New	Motor Vehicle Engine and Fuel System Technician
3119-05	32577	Motor Vehicle Examiner, Grade A17
7231-06	72314	Motor Vehicle Mechanic
7231-20	New	Motor Vehicle Mechatronics Mechanic
3154-03	New	Motor Vehicle Mechatronics Technician
7231-21	New	Motor Vehicle Repairer
3154-01	New	Motor Vehicle Technician
2144-26	21445	Motor-Car Design Engineer
7231-05	72313	Motorcycle Mechanic
8321-01	83211	Motorcyclist
7211-02	72111	Mould Maker
7211-03	72111	Mould Repairer, Foundry
7211-10	New	Moulder
7211-05	72111	Moulder, Metal
7211-06	72111	Moulder, Pit Foundry
8142-11	New	Moulder, Plastic
8141-14	New	Moulder, Rubber
2826-04	26362	Muffi
7323-10	New	Multibinder Operator
2166-25	New	Multimedia Artist
2166-12	New	Multimedia Designer
2844-04	New	Multimedia Producer
2514-29	25146	Multimedia Programmer
2512-02	25121	Multi-Media Software Developer
2411-19	24116	Municipal Accountant
3633-03	44198	Museum Assistant, Grade S17
2811-07	26212	Museum Curator
5414-16	New	Museum Guard
5113-04	51132	Museum Guide

MASCO 2013	MASCO 2008	JOB TITLE
1624-02	New	Museum Manager
3633-07	New	Museum Technician
6113-05	61132	Mushroom Cultivator
2842-11	26522	Music Arranger
2842-10	26522	Music Composer
2842-16	New	Music Conductor
2842-09	26522	Music Director
2351-01	23511	Music Teacher
7312-01	New	Musical Instrument Maker
7312-02	73121	Musical Instrument Tuner
3339-03	33392	Musical Performance Agent
2842-06	26522	Musician
3634-01	34351	Musician, Grade B17
2842-01	26525	Musician, Grade B41
2842-02	26521	Musicologist
2131-31	21312	Mycologist
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5311-03	53115	Nanny
1113-06	11133	Native Chief
2146-07	New	Natural Gas Mining Engineer
2146-20	21452	Natural Gas Production and Distribution Engineer
2231-05	32307	Naturopath
7311-12	73118	Nautical Instrument Maker
2171-05	21714	Naval Architect
0311-02	New	Navigation Branch Officer
2514-30	New	Navision Analyst Programmer
2512-21	New	Navision Developer (IT)
2512-22	New	Net Sharepoint Developer (IT)
2522-25	25232	NetApps Administrator
2523-03	25234	Network Administrator
2523-01	25231	Network Analyst
2522-10	25221	Network Communications Executive
2523-05	New	Network Engineer
2523-04	25235	Network Infrastructure Administrator
1511-14	New	Network Manager
2514-13	New	Network Programmer
2523-02	25233	Network Service Consultant
3513-02	35132	Network Support Technician
2523-06	New	Network System Engineer
2212-11	22128	Neurologist
2134-21	21347	Neuropathologist
1113-11	New	New Village Head
2846-11	New	News Anchor
3631-06	34313	News Photographer
2832-05	26421	News Reporter
5221-03	New	Newsagent
2846-06	26562	Newscaster
9621-11	96214	Newspaper Deliverer
2832-11	New	Newspaper Editor
2832-12	New	Newspaper Reporter
9521-01	95201	Newspaper Vendor
2113-40	New	Nickel Plating Specialist
2146-04	21463	Non-Metal Mining Engineer
7512-06	75127	Noodle Maker
2619-01	26191	Notary
9621-04	44126	Notice Boy, Grade N3
2831-03	26411	Novelist
3211-07	New	Nuclear Medicine Technologist
2144-09	21443	Nuclear Power Engineer
3131-09	New	Nuclear Power Plant Operator
3161-01	New	Nuclear Technician

MASCO 2013	MASCO 2008	JOB TITLE
5161-04	51614	Numerologist
3612-03	34132	Nun
2221-12	32211	Nurse
2221-14	32211	Nurse (Public Health)
2221-06	New	Nurse Anaesthetist
2221-07	New	Nurse Educator
2221-11	32211	Nurse Instructor
2221-08	New	Nurse Practitioner
3221-01	32214	Nurse, Grade U29
2221-01	22212	Nurse, Grade U41
5321-09	New	Nursing Aide (Clinic Or Hospital)
5322-03	New	Nursing Aide (Home)
5321-03	53211	Nursing Assistant
3257-33	New	Nursing Home Inspector
5321-04	53211	Nursing Medical Assistant
8161-54	81605	Nut Roaster
2265-06	22652	Nutritionist
<b>O</b>		
2212-13	22129	Obstetrician and Gynaecologist
2212-14	22129	Obstetrician and Gynaecologist, Fertility
2212-16	22129	Obstetrician and Gynaecologist, Foetomaternal Medicine
2212-15	22129	Obstetrician and Gynaecologist, Oncology
2423-05	24232	Occupational Analyst
2423-08	24233	Occupational Guidance Officer
3257-08	New	Occupational Health Inspector
2221-21	32213	Occupational Health Nurse
2263-16	New	Occupational Health Officer
3257-09	New	Occupational Health Supervisor
3257-06	New	Occupational Hygiene Inspector
3257-10	New	Occupational Hygiene Inspector
3257-11	New	Occupational Hygiene Technician
2263-17	New	Occupational Hygiene Technologist
2263-21	New	Occupational Hygienist
2263-20	New	Occupational Safety and Health Adviser
3257-05	32571	Occupational Safety and Health Inspector
1212-04	12123	Occupational Safety and Health Manager
2263-06	22631	Occupational Safety and Health Officer
2263-15	New	Occupational Safety and Health Officer
3257-07	New	Occupational Safety Inspector
1212-07	14351	Occupational Safety Manager
2263-18	New	Occupational Safety Officer
2268-01	22681	Occupational Therapist
2114-18	21145	Oceanographer
3111-22	31119	Oceanography Technician
9622-04	96221	Odd-Job Person
9621-09	96213	Office Boy
4311-25	43117	Office Cash Clerk
4111-16	41101	Office Chief
3343-09	33431	Office Chief Secretary
4111-10	41101	Office Clerk
5414-12	54146	Office Guard
4121-03	JPA	Office Secretarial Assistant /Office Secretary, Grade N17
4121-02	New	Office Secretarial Assistant, Grade N17
4121-01	41206	Office Secretary, Grade N27
3611-09	34121	Officer, Family Planning
4323-23	43235	Officer, Ferry
2172-09	21724	Officer, Ship dan Deck
3111-29	New	Officer-in-charge, Weather station
2619-06	26195	Official Assignee
7321-01	81322	Offset Camera / Plate Maker Operator, Grade N17
3322-27	New	Offshore Sales Executive

MASCO 2013	MASCO 2008	JOB TITLE
1322-04	New	Oil and Gas Extraction Manager
3117-15	31174	Oil and Gas Well Acidiser
3117-13	31174	Oil and Gas Well Explosive Technician
7514-07	New	Oil Expeller
3116-04	31162	Oil Technologist
7233-06	72339	Oiler and Greaser
3142-09	31424	Olericulture Technician
2133-07	21333	Olericulturist
2425-19	24254	Operation Executive
1323-04	13233	Operation Manager
1615-05	13451	Operation Manager, Education
1612-05	13421	Operation Manager, Health
2421-05	24211	Operation Research Analyst
3123-01	31231	Operation Supervisor
2221-16	32212	Operation Theatre Nurse
1121-23	New	Operations Manager
3111-30	New	Operations Technician, Weather Station
8132-11	81325	Operator, Audio-Visual Aids
8172-15	81728	Operator, Auto-Clipper
8342-01	83421	Operator, Backhoe
8342-10	83426	Operator, Backhoe Dredger
8171-05	81715	Operator, Bleach Machine
3134-15	New	Operator, Blender/Petroleum and Natural Gas Refining (ethyl)
8221-22	82211	Operator, Boiler Production Machine
8342-04	83424	Operator, Bulldozer
8343-06	83435	Operator, Cable Car
8113-02	81131	Operator, Cable Drilling Equipment
8221-04	82211	Operator, Cable Production Machine
8183-01	81831	Operator, Carton
8131-27	81314	Operator, Chemical Process Coverter (Except Petroleum and Natural Gas)
8221-23	82211	Operator, Clock Production Machine
8221-28	82211	Operator, Commutator Production Machine
8311-05	83112	Operator, Commuter
8221-38	82211	Operator, Core-Blowing Machine
8343-02	83431	Operator, Crane
8161-17	81602	Operator, Dairy Product Sterilising
8132-21	New	Operator, Darkroom
8342-14	83429	Operator, Dragline
8113-01	81131	Operator, Drilling Equipment
8342-12	83428	Operator, Drilling Plant
8221-17	82211	Operator, Electric Wiring Machine
8132-15	81327	Operator, Film-Recorder
8344-01	83441	Operator, Forklift Truck
8161-53	81605	Operator, Fractionation Plant
8181-18	81848	Operator, Glass Sandblasting Equipment
8341-05	83414	Operator, Harvester
8343-03	83432	Operator, Hoist
8344-02	83442	Operator, Industrial Truck
8221-27	82211	Operator, Jewellery Production Machine
8344-03	83443	Operator, Lifting Truck
8311-07	83112	Operator, Light Rail Transit
6211-14	62113	Operator, Log-Grapple
8112-06	81123	Operator, Magnetic Separator
8161-70	81607	Operator, Malting Germination Equipment
8161-52	81605	Operator, Margarine Plant
8343-05	83434	Operator, Material Handling Lift
8221-09	82211	Operator, Metal Bending Machine
8221-11	82211	Operator, Metal Buffing Machine
8221-32	82211	Operator, Metal Burnishing Machine
8221-12	82211	Operator, Metal Coremaking Machine
8221-15	82211	Operator, Metal Cutting Machine
8221-36	82211	Operator, Metal Engraving Machine
8221-33	82211	Operator, Metal Etching Machine



MASCO 2013	MASCO 2008	JOB TITLE
8221-05	82211	Operator, Metal Except Forging Press-Machine
8221-14	82211	Operator, Metal Flamecutting Machine
8221-18	82211	Operator, Metal Forging Machine
8221-01	82211	Operator, Metal Forming Machine
8221-35	82211	Operator, Metal Grinding Machine
8221-37	82211	Operator, Metal Lapping Machine
8221-43	82211	Operator, Metal Minting Machine
8221-13	82211	Operator, Metal Moulding Machine
8221-24	82211	Operator, Metal Nut Production Machine
8221-42	82211	Operator, Metal Products Machine
8221-06	82211	Operator, Metal Punching Press-Machine
8221-10	82211	Operator, Metal Reaming Machine
8221-19	82211	Operator, Metal Referring Machine
8221-16	82211	Operator, Metal Sharpening Machine
8221-40	82211	Operator, Metal Shearing Machine
8221-08	82211	Operator, Metal Spinning Machine
8221-39	82211	Operator, Metal Sports Equipment Machine
8221-07	82211	Operator, Metal Stamping Press-Machine
8221-20	82211	Operator, Metal Toy Production Machine
8221-34	82211	Operator, Metal Welding Machine
8121-18	81215	Operator, Mill Table
8343-08	New	Operator, Mobile Crane
8311-06	83112	Operator, Mono-Rail
8132-14	81327	Operator, Motion Picture Camera
8341-01	83411	Operator, Motorised Farm Equipment
8122-14	81228	Operator, Moulding
8221-26	82211	Operator, Nail Production Machine
8221-03	82211	Operator, Needle Production Machine
7422-12	74217	Operator, Network
8121-17	81214	Operator, Non-Ferrous Metal Rolling Mill
8113-04	81132	Operator, Oil and Gas Well Derrick
8113-05	81132	Operator, Oil and Gas Well Pulling Equipment
8183-02	81832	Operator, Packing
8171-12	81718	Operator, Paper-Pulp Plant
8132-20	New	Operator, Photography
8342-03	83423	Operator, Piling-Driver
8221-25	82211	Operator, Pipe Production Machine
8171-03	81713	Operator, Pulp Beater
8171-01	81711	Operator, Pulp Digester
8132-17	81327	Operator, Radio and Television Studio Equipment
8181-04	81841	Operator, Retort
8221-30	82211	Operator, Rivet Production Machine
8221-41	82211	Operator, Riveting Machine
8342-08	83425	Operator, Road Grader and Scraper
8342-06	83425	Operator, Road Making Machine
8189-09	82196	Operator, Road Marking Equipment
8342-07	83425	Operator, Road Roller
8173-06	81735	Operator, Sander
8172-01	81721	Operator, Sawmill
7621-08	75314	Operator, Sewing
8132-12	81327	Operator, Sound and Image Recording Equipment
8161-67	81607	Operator, Spirit Fermentation Equipment
8182-05	81822	Operator, Steam Boiler Plant
8182-06	81823	Operator, Steam Engine
8121-31	81218	Operator, Steel Fabricator
8131-29	81314	Operator, Still Batch (Chemical Processes Except Petroleum and Natural Gas)
8131-30	81314	Operator, Still Chemical Processes
8131-31	81314	Operator, Still Continuous (Chemical Processes Except Petroleum and Natural Gas)
8131-32	81314	Operator, Still Turpentine
3134-16	New	Operator, Still/Petroleum and Natural Gas Refining
9333-14	93352	Operator, Store
8161-59	81606	Operator, Sugar Processing and Refining
8161-69	81607	Operator, Syrup-Mixing Plant

MASCO 2013	MASCO 2008	JOB TITLE
8172-17	92154	Operator, Tacky Timber
8342-13	83429	Operator, Tamping Construction Machinery
8132-18	81327	Operator, Telecine
8132-13	81327	Operator, Television Camera
8154-07	81547	Operator, Textile Calender
8221-29	82211	Operator, Tool Production Machine
8343-07	New	Operator, Tower Crane
8342-11	83427	Operator, Tunnelling Construction Machinery
8172-14	81727	Operator, Veneer Dryer
8132-16	81327	Operator, Video Tape-Recorder
8221-02	82211	Operator, Watch Production Machine
8113-03	81131	Operator, Well Drilling Equipment
8343-04	83433	Operator, Winch
8221-21	82211	Operator, Wire Goods Production Machine
7422-13	74217	Operator, Wireless Equipment
7613-02	75232	Operator, Wood Machine
6211-13	62113	Operator, Yarder
8221-31	82211	Operator, Zip Production Machine
3256-15	New	Ophthalmic Assistant
2267-04	22672	Ophthalmic Optician
2212-09	22125	Ophthalmologist
4312-06	43123	Opinion Polling Enumerator
2149-20	New	Optical Engineer
7315-05	73154	Optical Glass Cutter
7311-08	73115	Optical Instrument Maker
7311-16	73115	Optical Instrument Repairer
7639-03	New	Optical Lens Finisher
7639-04	New	Optical Lens Moulder
2267-03	22672	Optician
3254-01	32541	Optician, Contact Lens Dispensing
2267-02	22671	Optometrist
2267-01	22673	Optometry Officer, Gred U41
2511-38	New	Oracle Applications Administrator
2511-43	New	Oracle Consultant
2511-16	New	Oracle Database Analyst
2521-07	New	Oracle Database Engineer
2521-08	New	Oracle Database Specialist
2511-39	New	Oracle E-Business Suite Consultant
2511-40	New	Oracle Financials Support Specialist
2511-41	New	Oracle Functional Consultant
2261-19	New	Oral and Maxillofacial Surgeon
2261-14	22616	Oral Dentistry Surgeon
2261-20	New	Oral Pathologist
1113-16	New	<i>Orang Besar Berempat</i>
1113-18	New	<i>Orang Besar Berenam Belas</i>
1113-17	New	<i>Orang Besar Berlapan</i>
1113-19	New	<i>Orang Besar Bertiga Puluh Dua</i>
2842-13	26523	Orchestra Conductor
2842-07	26522	Orchestrator
8351-18	New	Ordinary Seaman
2421-03	24211	Organisation and Method Analyst
2141-08	21413	Organisation and Methods Engineer
2824-08	New	Organisational Psychologist
2269-05	22662	Orientation Therapist for the Blind
3632-17	34324	Ornamental Metalwork Designer
2131-36	21313	Ornithologist
2261-08	22613	Orthodontist
2266-03	22663	Orthoepist
7311-06	73113	Orthopaedic Appliance Maker
7311-14	73113	Orthopaedic Appliance Repairer
2221-18	32212	Orthopaedic Nurse
2264-13	New	Orthopaedic Physical Therapist
3215-01	32152	Orthopaedic Technician

MASCO 2013	MASCO 2008	JOB TITLE
2212-34	22129	Orthopaedist
2266-04	22663	Orthophonist
2267-05	22672	Orthoptist
3214-03	New	Orthotic Technician
3214-04	New	Orthotist
3259-02	22129	Osteopath
6122-07	New	Ostrich Farmer
2212-35	22129	Otolaryngologist
5244-03	New	Outbound Contact Centre Consultant
3623-06	34238	Outdoor Adventure Guide
1221-10	12214	Outlet Manager
5131-05	51314	Outlet Supervisor
8122-13	81227	Oxidiser
3134-08	31344	Oxygen Plant Operator
6221-14	New	Oyster Farmer
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2141-25	New	Package Design Engineer
2163-09	34324	Packaging Designer
3122-04	31222	Packaging Supervisor
2141-18	21416	Packaging Technologist
8183-03	81833	Packer
9321-01	93211	Packer (Hand)
2221-19	32212	Paediatric Nurse
2264-12	New	Paediatric Physical Therapist
2212-36	22129	Paediatrician
2212-39	22129	Paediatrician, Cardiology
2212-37	22129	Paediatrician, Gastroenterology
2212-38	22129	Paediatrician, Haematology
2212-40	22129	Paediatrician, Nephrology
2212-41	22129	Paediatrician, Neurology
2212-42	22129	Paediatrician, Oncology
2212-43	22129	Paediatrician, Respiratory
2261-06	22612	Paedodontist
2841-07	26515	Paint Artist
2145-09	21453	Paint Engineer
2145-08	21453	Paint Technologist
7131-02	New	Painter
7131-05	71311	Painter, Building
7131-04	73162	Painter, Ceramics
7131-03	73162	Painter, Glass
7131-08	71323	Painter, Manufactured Articles
7131-09	71324	Painter, Metal
7131-11	71328	Painter, Ship Hull
7131-06	71312	Painter, Steel Structure
2841-03	26514	Painting Restorer
2352-03	New	Painting Teacher
2114-33	21149	Palaeontologist
2113-32	New	Paleo & Biotratigrapher
5161-02	51612	Palmist
7213-11	72135	Panel Beater, Aircraft
7213-10	72135	Panel Beater, Vehicle
9412-05	New	Pantry Attendant
7323-02	73232	Paper Cutter
3139-08	New	Paper Pulp Refinery Operator
2145-21	21458	Paper Technologist
8143-08	New	Papier Mache Moulder
3134-09	31345	Paraffin Plant Operator
3411-08	New	Paralegal
2241-01	22401	Paramedic
2131-37	21313	Parasitologist
3212-13	32123	Parasitology Assistant

MASCO 2013	MASCO 2008	JOB TITLE
1311-01	14315	Park / Estate Manager, Grade G48
1621-04	14313	Park Manager
5419-04	54192	Park Warden, Animal Recreation
3142-03	54193	Park/Estate Assistant, Grade G17
2619-11	26198	Parliamentary Drafter
2825-10	New	Parole Officer
3611-07	34121	Parole Officer, Associate Professional
7122-04	71223	Parquetry Worker
5112-07	51123	Passenger Guard, Train
3711-04	33512	Passport Checking Officer
3714-05	33541	Passport Issuing Assistant
2914-06	33541	Passport Issuing Officer
7512-07	New	Pasta Maker
7512-02	75123	Pastry Baker
3641-11	34343	Pastry Chef
2431-06	24222	Patent Agent
2426-04	24495	Patent Inspector, Grade Q41
2134-22	21347	Pathologist
2134-24	21347	Pathologist, Animal
2134-26	21347	Pathologist, Clinical
2134-23	21347	Pathologist, Forensic
2134-25	21347	Pathologist, Histopathology
2134-29	21347	Pathologist, Medical
2134-27	21347	Pathologist, Neuropathology
2134-30	21347	Pathologist, Plant
2134-28	21347	Pathologist, Surgical
2134-31	21347	Pathologist, Veterinary
3344-08	New	Pathology Secretary
3212-11	32122	Pathology Technician
5321-10	New	Patient Care Assistant
3344-04	New	Patient Care Secretary
7622-16	New	Pattern-Maker, Fur
7622-01	75321	Pattern-Maker, Garment
7622-14	75326	Pattern-Maker, Gloves
7622-02	75322	Pattern-Maker, Hat and Cap
7622-15	75326	Pattern-Maker, Mattress
7222-04	72222	Pattern-Maker, Metal Foundry
7622-10	75326	Pattern-Maker, Paper
7622-12	75326	Pattern-Maker, Sail
7623-06	75334	Pattern-Maker, Shoe
7622-11	75326	Pattern-Maker, Tent
7622-13	75326	Pattern-Maker, Umbrella
7612-13	75229	Pattern-Maker, Wood Patterns
7112-04	71125	Paviour
4213-01	42131	Pawnbroker
4313-03	43132	Paymaster
4214-01	42141	Payment Collector
4132-09	New	Payment Entry Clerk
2411-42	New	Payroll Analyst
4313-01	43131	Payroll Clerk
2411-43	New	Payroll Executive
4313-04	New	Payroll Processor
6221-15	New	Pearl Cultivator
6221-03	62211	Pearl Culturist
9331-02	93311	Pedal Vehicle Driver
5142-05	51424	Pedicurist
9521-02	95202	Pedlar
9216-05	92161	Peeler, Anchovy
9211-17	New	Peeler, Coconut
6211-20	62113	Peeler, Log
9211-20	New	Peeler, Nuts
9211-19	New	Peeler, Pineapple
9211-18	New	Peeler, Potato

MASCO 2013	MASCO 2008	JOB TITLE
7625-01	75351	Pelt Dresser
1113-03	11131	Penggawa
2822-07	26325	Penologist
3713-03	New	Pension Assistant
2913-03	New	Pensions Officer
2511-44	New	Peoplesoft Consultant (IT)
2511-45	New	Peoplesoft Financials Functional Consultant
7234-05	New	Perambulator Repairer
7323-11	New	Perfect Binding Operator
2261-12	22615	Periodontist
2175-03	21752	Permanent-Way Inspector (Railways)
3343-04	41202	Personal Assistant
5322-04	New	Personal Care Provider
1622-01	14322	Personal Care Service Manager
2152-34	New	Personal Computer (PC) Motherboard Designer
3512-02	35121	Personal Computer Support Technician
3623-08	New	Personal Trainer
4416-06	44167	Personnel Assistant
3341-08	33412	Personnel Clerk Supervisor
2423-11	24234	Personnel Consultant
1212-05	New	Personnel Manager
2423-02	24231	Personnel Officer
2423-01	24231	Personnel Safety Officer
1113-14	New	Perut
7634-01	75441	Pest Controller
4414-01	44141	Petition Writer
5245-01	52451	Petrol Pump Attendant
3116-08	31163	Petroleum and Natural Gas Analyst
2146-17	New	Petroleum and Natural Gas Engineer
3117-14	31174	Petroleum and Natural Gas Extraction Assistant
3117-04	31174	Petroleum and Natural Gas Extraction Technician
3134-12	31348	Petroleum and Natural Gas Pumping Station Operator
3134-11	31347	Petroleum and Natural Gas Refining Treater Operator
2146-18	21452	Petroleum Engineer
3116-03	31162	Petroleum Engineering Technician
2146-06	21464	Petroleum Mining Engineer
3134-18	New	Petroleum Process Operator
3134-10	31346	Petroleum Refining Blender
3116-07	31162	Petroleum Refining Laboratory Assistant
3116-06	31162	Petroleum Refining Technician
2114-14	21144	Petrologist
2113-36	New	Petrophysicist
7313-04	73131	Pewtersmith
3213-01	32131	Pharmaceutical Assistant
3213-02	32132	Pharmaceutical Laboratory Assistant
3213-03	New	Pharmaceutical Technician
2262-03	22621	Pharmacist
2134-16	21346	Pharmacologist
2134-17	21346	Pharmacologist, Toxicology
2134-18	21346	Pharmacologist, Veterinary
3141-16	32121	Pharmacology Technician
3213-04	New	Pharmacy Aide
0111-03	New	Pharmacy Officer
2262-01	22625	Pharmacy Officer, Grade U41
2833-05	26433	Philologist
2823-01	26331	Philosopher
5329-03	New	Phlebotomist
8132-19	81328	Photo Finisher
7324-04	73244	Photo-Engraver
2165-06	21658	Photogrammetrist
8132-27	New	Photograph Enlarger
8132-28	New	Photograph Printer
3631-03	34311	Photographer

MASCO 2013	MASCO 2008	JOB TITLE
3631-01	New	Photographer, Grade B11
2849-01	26591	Photographer, Grade B37
7311-04	73111	Photographic Equipment Maker
8132-23	New	Photographic Film Printer
8132-22	New	Photographic Processor
2165-12	21658	Photographic Surveyor
3631-07	34313	Photo-Journalist
1322-07	New	Photovoltaic Manager
2152-22	New	Physical Design Verification Engineer
3623-01	34231	Physical Fitness Instructor
3117-10	31172	Physical Metallurgy Assistant
3117-07	31172	Physical Metallurgy Technician
3255-07	New	Physical Rehabilitation Technician
3111-13	31111	Physical Science Laboratory Assistant
3111-09	31111	Physical Science Laboratory Technician
3111-10	31111	Physical Science Technician
2264-06	22642	Physical Therapist
0321-17	New	Physical Trainer
2212-44	22129	Physician
2211-18	New	Physician (General)
2212-49	22129	Physician, Cardiology
2212-45	22129	Physician, Dermatology
2212-46	22129	Physician, Endocrinology
2212-53	22129	Physician, Family Medicine
2212-47	22129	Physician, Gastroenterology
2212-48	22129	Physician, Haematology
2212-50	22129	Physician, Nephrology
2212-51	22129	Physician, Neurology
2212-54	22129	Physician, Respiratory Medicine
2212-52	22129	Physician, Rheumatology
2111-01	21111	Physicist
2111-11	21113	Physicist, Acoustics
2111-25	21117	Physicist, Astronomer
2111-20	21116	Physicist, Atomic
2111-05	21112	Physicist, Ballistics
2111-17	21114	Physicist, Electricity and Magnetism
2111-18	21115	Physicist, Electronics
2111-14	21113	Physicist, Heat
2111-06	21112	Physicist, Hydrodynamics
2111-13	21113	Physicist, Light
2111-08	21112	Physicist, Mechanics
2111-15	21113	Physicist, Medical
2111-21	21116	Physicist, Molecular
2111-19	21116	Physicist, Nuclear
2111-27	21119	Physicist, Rheology
2111-07	21112	Physicist, Solid-State
2111-12	21113	Physicist, Sound
2111-02	21111	Physicist, Theoretical
2111-16	21113	Physicist, Thermodynamics
3111-11	31111	Physics Laboratory Assistant
3111-06	31111	Physics Technician
2134-10	21345	Physiologist
2134-13	21345	Physiologist, Animal
2134-11	21345	Physiologist, Endocrinology
2134-12	21345	Physiologist, Epidemiology
2134-14	21345	Physiologist, Neurology
2134-15	21345	Physiologist, Plant
3212-10	32122	Physiology Technician
2264-04	22641	Physiotherapist
2264-03	JPA	Physiotherapist, Grade U29
3255-01	New	Physiotherapy Assistant
2264-08	22642	Physiotherapy Masseur
3255-06	New	Physiotherapy Technician



MASCO 2013	MASCO 2008	JOB TITLE
1612-10	New	Phytonutrients Manager
7312-04	73122	Piano Maker
2841-10	New	Picture Restorer
9312-05	96295	Piling Worker
2173-04	21732	Pilot
2173-01	21731	Pilot/ Pilot Examiner, Grade A41
7126-05	71262	Pipe Fitter
7126-09	71262	Pipe Fitter, Marine
7126-08	71262	Pipe Fitter, Sewerage
7126-10	71262	Pipe Fitter, Ventilation
7126-07	71262	Pipe Fitter, Water Supply
7119-02	71192	Pipe Layer
7126-06	71262	Pipe Tube Fitter, Aircraft
2131-38	21313	Pisciculturist
3323-01	33231	Planning and Distribution Executive
2141-09	21413	Planning Engineer
2141-24	New	Plant Engineer
3142-11	31424	Plant Nursery Technician
8182-01	31327	Plant Operator, Grade R3
8112-10	81129	Plant Processing Operator, Mineral and Stone
4312-16	43128	Plantation Finance Clerk
1311-03	13112	Plantation Manager
4321-20	43212	Plantation Stock Clerk
2132-10	21321	Planting Adviser
7123-01	71231	Plasterer
7123-03	71233	Plasterer, Fibrous
7123-04	71234	Plasterer, Ornamental
7123-05	New	Plasterer, Solid
7123-02	71232	Plasterer, Stucco
2145-18	21457	Plastics Technologist
7321-10	New	Plate Maker (Printing)
2152-29	New	Platform Signal Integrity Engineer
2831-04	26412	Playwright
7126-04	71261	Plumber
7212-06	72125	Plumbum Burner
8172-09	81723	Plywood Core Layer
3122-09	31225	Plywood Inspection Supervisor
7232-11	New	Pneudraulic System Mechanic (Aircraft)
3151-13	New	Pneudraulic System Technician (Aircraft)
2212-55	22129	Podiatrist
2831-10	26412	Poet
8312-06	83125	Pointsman, Railway
1112-39	New	Police Commissioner
3715-03	33552	Police Detective
3715-05	New	Police Inquiry Agent
3715-02	33551	Police Inspector
3715-04	New	Police Officer
3715-06	New	Police Patrol Officer
5412-04	54123	Police Patrol Officer
5412-03	54123	Police Volunteer
2422-02	24223	Policy Analyst
1213-01	12131	Policy and Planning Manager
1213-04	New	Policy and Research Manager
2422-05	24225	Policy Executive
2422-04	24224	Policy Officer
8181-33	81849	Polisher, Glass Plate
7113-10	71138	Polisher, Stone
7612-16	75229	Polisher, Wood
2832-08	26422	Political Editor
2823-02	26331	Political Philosopher
2823-04	26333	Political Scientist
4111-17	41101	Political Worker
3257-38	New	Pollution Control Inspector

MASCO 2013	MASCO 2008	JOB TITLE
2145-19	21457	Polymer Technologist
2133-08	21333	Pomologist
3142-10	31424	Pomology Technician
9216-03	62214	Pond Worker, Shellfish
2172-06	21723	Port Captain
9621-18	91122	Porter
9621-08	96212	Porter, Luggage
9333-09	93336	Porter, Warehouse
2841-11	New	Portrait Painter
4211-09	New	Post Office Counter Clerk
4211-01	42113	Postal Clerk
2341-01	23412	Post-Diploma Education Service Officer, Grade DGA29
3632-04	34321	Poster Designer
4412-01	44121	Postman/woman
1112-41	13244	Postmaster General
9621-20	New	Post-runner
2152-35	New	Post-Silicon Validation Engineer
3631-15	New	Portrait Photographer
7314-01	73141	Potter
6122-05	New	Poultry Breeder
3142-17	New	Poultry Technical Officer
2151-13	21513	Power Distribution and Transmission Engineer
3131-04	31314	Power Generating Plant Operator
2151-09	21512	Power Generation Engineer
2511-63	New	Power Integrated Circuit(IC) Designer (IT)
7232-12	New	Power Plant Mechanic (Aircraft)
3151-14	New	Power Plant Technician (Aircraft)
3131-13	New	Power System Operator
3131-06	31316	Powerhouse Fabricator
2361-04	New	Practical Language Teacher
3221-04	New	Practical Nurse
3612-04	34133	Preacher
7313-09	73135	Precious Metal Roller
7311-01	73111	Precision Instrument Maker
7613-06	New	Precision Woodworking Sawyer
7214-08	72148	Preparer, Structural Metal
2342-01	23421	Pre-Primary School Teacher
5312-03	New	Pre-school Assistant
2342-03	New	Pre-school Teacher
2846-09	26563	Presentation Support Assistant
8161-57	81605	Preserver, Sauces and Condiments
1121-26	New	President
1114-04	New	President of Congress of Union of Employees in the Public and Civil Services
1114-02	11142	President of Employers' Federation
1112-33	New	President of Local Authority
1112-35	New	President of Local Authority
1121-19	11202	President of Organisation
1114-01	11141	President of Political Party
1111-12	New	President of the Senate
1114-03	11143	President of Trades Union Congress
2152-23	New	Pre-Silicon Validation Engineer
2832-16	26542	Press Editor
2432-11	24323	Press Liaison Officer
7321-06	73216	Press Line Worker
2432-10	24323	Press Officer
7322-04	73225	Press Operator, Embossing
3631-05	34313	Press Photographer
9121-04	91214	Presser
7314-02	73142	Presser, Brick and Tile
7314-08	73145	Presser, Pottery and Porcelain
8142-02	81422	Press-Machine Operator, Plastic Laminating
8131-18	81313	Press-Operator, Chemical Process Filter
8181-19	81849	Press-Operator, Clay Filtering

MASCO 2013	MASCO 2008	JOB TITLE
8161-43	81605	Press-Operator, Edible Oils
8161-42	81605	Press-Operator, Fruit
8172-10	81724	Press-Operator, Plywood
8141-03	81413	Press-Operator, Rubber Moulding
2331-04	23302	Pre-University Teacher
3719-04	33591	Price Inspector
2826-07	26365	Priest, Church
2826-08	26366	Priest, Temple
2241-05	New	Primary Care Paramedic
2341-02	23411	Primary School Teacher
1111-01	11112	Prime Minister
1615-03	New	Principal
1615-11	13452	Principal, College
1615-12	13452	Principal, School
1615-13	13452	Principal, University
2152-27	New	Printed Circuit Board (PCB) Design Engineer
7322-01	73222	Printer
7322-19	81916	Printer, Wallpaper
7322-20	81919	Printing Operator
7322-14	81912	Printing Press Operator, Offset
7322-13	81911	Printing Press Operator, Cylinder
7322-17	81915	Printing Press Operator, Direct Lithographic
7322-15	81913	Printing Press Operator, Rotary
7322-16	81914	Printing Press Operator, Rotogravure
7322-18	81916	Printing Press Operator, Wallpaper
2141-19	21416	Printing Technologist
2151-23	New	Prismatic Research Engineer
5413-02	54131	Prison Guard
5413-01	54133	Prison Officer, Grade KX17
5413-03	54132	Prison Warden
4223-02	42231	Private Branch Exchange Telephone Operator
3411-04	New	Private Detective
3411-05	54196	Private Investigator
2825-11	New	Probation Officer
3611-08	34121	Probation Officer, Associate Professional
2149-10	21491	Process Engineer
4412-04	44123	Process Server
3119-19	31192	Process Technician
3323-05	33232	Procurement Agent
3323-06	33233	Procurement Executive
3323-08	New	Procurement Officer
6221-16	New	Producer, Crackers
6121-04	61213	Producer, Dairy
6221-18	New	Producer, Fishball
2844-02	26546	Producer, Grade B41
6121-09	New	Producer, Livestock
6221-11	61235	Producer, Marine Product
6221-17	New	Producer, Otak-Otak
2844-15	26543	Producer, Television
3322-17	33227	Product Brand Executive
2152-28	New	Product Characterisation Engineer
2434-09	New	Product Development Engineer
1223-02	New	Product Development Manager
2434-06	New	Product Engineer
1221-06	12212	Product Manager
2519-03	New	Product Quality Assurance Engineer (IT)
3257-12	32571	Product Quality Inspector
2434-03	New	Product Support Engineer
2434-07	New	Product Support Officer
1214-02	12141	Production and Business Operation Manager
1311-05	13112	Production and Operation Manager, Agricultural
1622-06	14321	Production and Operation Manager, Cleaning
1511-03	13301	Production and Operation Manager, Communications

MASCO 2013	MASCO 2008	JOB TITLE
1323-02	13231	Production and Operation Manager, Construction
1624-07	14312	Production and Operation Manager, Cultural Activities
1619-01	13491	Production and Operation Manager, Extra Territorial Organisation
1312-02	13121	Production and Operation Manager, Fishery
1311-11	13111	Production and Operation Manager, Forestry
1411-06	14111	Production and Operation Manager, Hotel
1311-07	13112	Production and Operation Manager, Livestock
1321-02	13211	Production and Operation Manager, Manufacturing
1322-01	13221	Production and Operation Manager, Mine
1322-03	New	Production and Operation Manager, Oil and Gas Extraction
1622-07	14322	Production and Operation Manager, Personal Care Service
1322-02	New	Production and Operation Manager, Quarry
1412-07	14121	Production and Operation Manager, Restaurant
1421-02	14201	Production and Operation Manager, Retail Trade
1421-16	14201	Production and Operation Manager, Retail Trade (Store)
1421-17	14201	Production and Operation Manager, Retail Trade (Supermarket)
1621-17	14314	Production and Operation Manager, Stage
1324-10	13242	Production and Operation Manager, Storage
1324-05	13241	Production and Operation Manager, Transport
1324-07	13241	Production and Operation Manager, Transport (Freight Traffic)
1324-08	13241	Production and Operation Manager, Transport (Passenger Traffic)
1324-06	13241	Production and Operation Manager, Transport (Pipeline)
1421-09	14202	Production and Operation Manager, Wholesale Trade
1421-10	14202	Production and Operation Manager, Wholesale Trade (Export)
1421-11	14202	Production and Operation Manager, Wholesale Trade (Import)
3521-04	35211	Production Assistant (Media)
1214-05	12143	Production Controller
2141-04	21416	Production Engineer
2182-05	21823	Production Executive
1214-01	12141	Production Manager
8189-02	82191	Production Operator
8189-11	82129	Production Operator, Electronic Products
1214-04	12143	Production Planner
3122-02	31224	Production Supervisor
2222-01	22221	Professional Midwife
2221-03	22211	Professional Nurse
2392-06	23602	Professional Remedial Teacher
2231-01	22301	Professional Traditional Medical Practitioner
2311-12	New	Professor
7321-07	73217	Profiling Line Worker
3639-06	New	Programme CoOrdinator (Broadcasting)
2846-10	26563	Programme Preparer
3639-02	JPA	Programme Producer, Grade B17
2522-17	New	Project Administrator (IT)
1323-08	New	Project Builder
2522-16	New	Project Coordinator (IT)
2149-09	21491	Project Engineer
2183-02	21832	Project Executive
1323-05	13233	Project Manager
3123-02	31231	Project Supervisor
3639-07	New	Prompter
2831-20	26416	Proofreader
4413-01	44131	Proof-Reader Clerk
3334-02	33342	Property Agent
4311-20	43117	Property Clerk
2412-12	21833	Property Executive
1618-01	14341	Property Maintenance Manager
1618-02	14342	Property Manager
3639-08	New	Property Master (Broadcasting)
3334-04	33344	Property Negotiator
3334-03	33343	Property Realtor
2611-19	26111	Prosecutor
2611-02	26112	Prosecutor, Grade L41

MASCO 2013	MASCO 2008	JOB TITLE
3215-02	32152	Prosthetic Technician
2212-56	22129	Prosthetist
2261-10	22614	Prosthodontist
0321-16	New	Provost
5321-11	New	Psychiatric Aide
2221-20	32212	Psychiatric Nurse
2212-08	22124	Psychiatrist
2824-05	26341	Psychologist
2824-01	26342	Psychology Officer, Grade S41
2824-09	New	Psychotherapist
2411-15	24116	Public Accountant
5321-02	53215	Public Health Assistant, Grade U11
3256-01	New	Public Health Assistant, Grade U17
2265-04	22651	Public Health Dietician
3257-01	32573	Public Health Inspector
2221-09	New	Public Health Nurse
2265-08	22652	Public Health Nutritionist
3257-04	New	Public Health Restaurant Inspector
3257-02	New	Public Health Safety Inspector
3257-03	New	Public Health Unit Supervisor
2251-06	22503	Public Health Veterinarian
4226-02	42272	Public Opinion Interviewer
2432-06	24321	Public Relations Executive
1222-04	12222	Public Relations Manager
2432-03	New	Public Relations Officer
2425-11	33563	Public Service Commission Officer
2619-05	26193	Public Trustee
4414-02	44142	Public Writer
3639-01	41107	Publication Assistant, Grade N17
4413-04	41101	Publication Clerk
2166-13	New	Publication Designer
2832-02	26544	Publications Officer, Grade N41
2432-08	24322	Publicity Agent
2831-15	26414	Publicity Writer
3132-05	31324	Pumping Station Operator
3139-02	31341	Pumpman
3134-01	31341	Pumpman (Petroleum Refining)
5312-01	53122	Pupil Management Assistant, Grade nN17
2847-11	New	Puppeteer
3323-07	New	Purchasing Agent
3323-02	33231	Purchasing Executive
1219-01	13243	Purchasing Manager
3323-10	New	Purchasing Merchandiser
<b>Q</b>		
2519-04	New	QA Analyst (IT)
2519-05	New	QA Executive (IT)
2182-03	25191	Quality Assurance Analyst
2149-11	21492	Quality Assurance Engineer
2182-02	21822	Quality Assurance Executive
1219-03	13213	Quality Assurance Manager
3122-17	82191	Quality Checker Tester
7516-04	75164	Quality Checker, Cigarette
2149-12	21492	Quality Control Engineer
2182-04	21822	Quality Control Executive
3122-14	New	Quality Control Inspector
1219-02	13213	Quality Control Manager
3122-15	31228	Quality Control Supervisor
3119-27	31228	Quality Control Technician
3122-16	New	Quality Controller
2149-25	New	Quality Engineer
2519-06	New	Quality Engineer (IT)

MASCO 2013	MASCO 2008	JOB TITLE
7633-02	New	Quality Inspector
6111-14	31425	Quality Inspector, Plantation
3119-07	31191	Quantity Surveying Technician
3119-02	31197	Quantity Surveying Technician, Grade J17
2149-08	21652	Quantity Surveyor
2149-01	21656	Quantity Surveyor, Grade J41
2263-19	New	Quarantine Officer - Public Health
8111-02	81112	Quarrier
1322-06	13223	Quarry Manager
3121-02	New	Quarry Supervisor
<b>R</b>		
1621-09	14313	Racecourse Manager
1621-18	New	Racing Car Manager
3621-11	New	Racing driver
3257-39	New	Radiation Monitor
2263-22	New	Radiation Protection Expert
2844-08	26541	Radio and Television Broadcasting Director
3521-15	35216	Radio and Television Broadcasting Equipment Technician
2844-09	26541	Radio and Television Director
1121-11	11201	Radio and Television Manager, Broadcasting
1121-12	11201	Radio and Television Manager, Programme
2832-09	26422	Radio and Television News Broadcasting Editor
3521-19	35216	Radio and Television Transmitting Equipment Technician
2846-02	26561	Radio Announcer
2511-64	New	Radio Frequency (RF) Integrated Circuit (IC) Design Engineer (IT)
3117-09	31172	Radioactive Mineral Metallurgy Technician
2212-57	22129	Radiologist
2212-58	22129	Radiologist, Diagnostic
2212-59	22129	Radiologist, Interventional
2212-60	22129	Radiologist, Nuclear Medicine
2212-61	22129	Radiologist, Radiotherapy
3256-06	32561	Radiology Equipment Technician
3256-07	32561	Radiology Equipment Technician, Medical, General
3211-03	New	Radiology Technician
2212-07	22123	Radiotherapy Oncologist
2175-02	21751	Railway and Locomotive Operation Controller
2175-01	21751	Railway and Locomotive Operation Officer
8311-03	83111	Railway Driver
5112-08	51123	Railway Guard
3153-05	31533	Railway Inspector
2152-05	21522	Railway Signal Engineer
1324-01	13241	Railway Station Master
3153-02	31532	Railway Supervisor
4323-08	43232	Railway Yardmaster
8351-13	83506	Ram Controller
4312-25	43115	Rating Clerk
7317-09	73178	Rattan Furniture Maker
4321-01	43211	Raw Material Clerk
4321-07	43211	Raw Material Store Clerk
8131-37	81314	Reactor-Convertor (Chemical Processes)
3334-01	33341	Real Estate Agent
3315-09	New	Real Estate Appraiser
1618-03	New	Real Estate Manager
3334-06	New	Real Estate Salesperson
4321-04	43211	Receiving Clerk
4224-01	42261	Receptionist
4132-03	41324	Records Clerk
1621-02	14313	Recreation Manager
5419-07	54196	Recreation Supervisor
1212-06	New	Recruitment Manager
7413-11	74135	Rectifier System Worker

MASCO 2013	MASCO 2008	JOB TITLE
9612-02	New	Recycling Worker
7234-03	72343	Reel Repairer
3622-07	34221	Referee
3134-17	New	Refinery Process Technician
7112-07	New	Refractory bricklayer
1412-10	14123	Refreshment Room Manager
3115-12	31151	Refrigeration and Air-Conditioning System Engineering Technician
7127-02	71271	Refrigeration Equipment Mechanic
2112-14	New	Refrigeration Service Specialist
3132-07	31326	Refrigeration System Operator
9612-04	New	Refuse Sorter
3322-26	New	Regional Sales Executive
2511-57	New	Register Transfer Level (RTL) Designer (IT)
2619-03	26192	Registrar of Court
3719-02	44163	Registration Assistant, Grade KP17
7114-01	71141	Reinforced Concrete Worker
3716-05	33565	RELA Officer
2371-04	New	Religious Education Teacher
2826-03	26361	Religious Officer
2826-09	New	Religious Professionals
2392-09	New	Remedial Teacher
4214-05	42144	Rent Collector
4214-06	42145	Rental Clerk
5249-01	New	Rental Salesperson
7421-02	74211	Repairer, Electronics
7623-04	75333	Repairer, Footwear
7621-15	75319	Repairer, Knitted Fabric
2832-03	41207	Reporter/Journalist Assistant, Grade S17
3322-10	33225	Representative, Commercial Technical Sales
5419-10	54196	Rescue Diver
1223-01	12231	Research and Development Manager
2134-34	New	Research and Development Pharmacist
2421-04	24211	Research and Information Analyst
3141-12	31416	Research Assistant
3111-04	31419	Research Assistant, Grade Q17
2149-14	21494	Research Engineer
1223-03	New	Research Manager
2265-09	22652	Research Nutritionist
2426-01	21317	Research Officer, Grade Q41
4224-12	42243	Reservation Assistant
4224-13	42243	Reservation Supervisor
1411-13	New	Resort Manager
3257-40	New	Restaurant Inspector
1412-01	14121	Restaurant Manager
5131-06	51314	Restaurant Supervisor
2262-05	22623	Retail Pharmacist
1421-01	14201	Retail Trade Manager
1421-07	14201	Retail Trade Manager, Mail-Order Store
1421-06	14201	Retail Trade Manager, Self-Service Store
1421-03	14201	Retail Trade Manager, Store
1421-15	14204	Retailer
8131-12	81312	Retort Operator, Chemical Processes
3315-04	33153	Revenue Assessor
2111-28	21119	Rheologist
9331-01	93311	Rickshaw Puller
8321-02	83212	Rider, Despatch
7215-03	72159	Rigger
7215-10	72157	Rigger, Aircraft
7215-05	72151	Rigger, Construction Hoisting Equipment
7215-04	72152	Rigger, Hoisting Equipment
7215-06	72153	Rigger, Logging
7215-08	72155	Rigger, Petroleum and Gas Well Drilling
7215-11	72158	Rigger, Railway Cable



MASCO 2013	MASCO 2008	JOB TITLE
7215-07	72154	Rigger, Ship
2413-04	New	Risk Operation Analyst
7214-04	72144	Riveter
3159-01	31591	Road Transport Supervisor
8131-16	81312	Roaster, Chemical Processes
8131-11	81312	Roasting Equipment Operator, Chemical Processes
3115-25	31191	Robotic Automation Technician
2141-02	21411	Robotics Engineer
3119-20	New	Robotics Technician
7232-13	New	Rocket Engine Component Mechanic
3151-15	New	Rocket Engine Component Technician
3257-41	New	Rodent Control Inspector
3135-06	New	Rolling Mill Control Operator
3135-01	31351	Rolling Mill Metal Manipulator
8131-05	81311	Roll-Mill Operator, Chemical Processes
8111-12	New	Roof Bolter (mining)
7121-01	New	Roofer
7121-05	71213	Roofer, Asbestos
7121-04	71213	Roofer, Asphalt
7121-03	71211	Roofer, Nipa
7121-10	71212	Roofer, Odd Job
7121-06	71215	Roofer, Slate
7121-02	71211	Roofer, Thatch
7121-07	71215	Roofer, Zinc
9621-17	91121	Room Boy
4111-12	41101	Room Service Clerk
5151-12	New	Room Steward
8131-22	81313	Rotary Drum Filterer
3115-13	31151	Rotary Technician
7316-09	73163	Router, Printing Plate
8351-03	83501	Rower, Canoe
0121-03	New	Royal Armoured Corps Officer
0121-06	New	Royal Artillery Regiment Officer
0121-13	New	Royal Electrical and Mechanical Engineer Corps Officer
0121-05	New	Royal Engineer Regiment Officer
0121-10	New	Royal Intelligence Corps Officer
0121-11	New	Royal Logistics Corps Officer
0121-01	New	Royal Malay Regiment Officer
0121-08	New	Royal Medical Corps Officer
0121-09	New	Royal Military Police Corps Officer
0121-12	New	Royal Ordnance Corps Officer
0121-02	New	Royal Ranger Regiment Officer
0121-04	New	Royal Signals Regiment Officer
2511-14	New	RPG System Analyst
8141-16	93221	Rubber Coagulator
8141-19	93225	Rubber Sheet Clipper and Sorter
9211-16	92112	Rubber Tapper
2145-20	21458	Rubber Technologist
9612-01	96121	Rubbish Sorter

## S

7323-12	New	Saddle Stitch Operator
4211-06	42116	Safe Deposit Clerk
3257-16	New	Safety and Health Inspector
3257-15	32573	Safety and Health Inspector, Consumer Protection
3257-14	32573	Safety and Health Inspector, Pollution
2263-11	New	Safety and Health Officer
3257-13	32571	Safety and Health Technician
2263-12	New	Safety and Health Technologist
3257-42	New	Safety and Sanitary Inspector
2149-21	New	Safety Engineer
5414-14	New	Safety Supervisor

MASCO 2013	MASCO 2008	JOB TITLE
3623-04	34236	Sailing Instructor
8351-08	83503	Sailor
3322-16	33227	Sales Administrative Executive
1221-02	12211	Sales and Marketing Manager
5223-01	52231	Sales Assistant
3322-13	33227	Sales Executive
1221-01	12211	Sales Manager
5242-03	52423	Sales Merchandiser
5242-02	52422	Sales Promoter
1221-04	12211	Sales Promotion Manager
2431-03	24313	Sales Promotion Officer
3322-04	33224	Sales Representative
2433-04	24333	Sales Representative, Active Implantable Devices
2433-05	24334	Sales Representative, Anaesthetic and Respiratory Devices
2434-02	24342	Sales Representative, Computer
2433-06	24335	Sales Representative, Dental Devices
2433-07	24336	Sales Representative, Electromechanical Medical Devices
2433-09	New	Sales Representative, Industrial Product
2434-01	24341	Sales Representative, Information and Communications Technology
2433-01	24331	Sales Representative, Medical
2433-10	New	Sales Representative, Medical and Pharmaceutical Product
2433-02	24332	Sales Representative, Medical Devices
2433-03	24332	Sales Representative, Medical Hardware
2433-08	24337	Sales Representative, Ophthalmic and Optical Devices
2432-17	New	Sales Reservation Executive
4121-15	41204	Sales Secretary
2431-08	New	Sales Specialist
5222-02	52221	Sales Supervisor
3322-01	New	Salesperson
5223-03	New	Salesperson (Retail Establishment)
5223-04	New	Salesperson (Wholesale Establishment)
3322-11	33226	Salesperson, Business Services Advertising
3322-22	33228	Salesperson, Car
5211-11	52431	Salesperson, Marketing
3322-23	33228	Salesperson, Motor Vehicle
3322-24	33228	Salesperson, Motorcycle
3322-06	33225	Salesperson, Technical
3322-05	33225	Salesperson, Travel
8111-06	81111	Sampler, Mine
8111-08	81112	Sampler, Quarry
7133-02	71332	Sandblaster (Building Exteriors)
7316-03	73162	Sandblaster, Glass
8122-08	81224	Sandblaster, Metal
2263-03	22631	Sanitarian
3257-17	32573	Sanitary Inspector
3257-18	New	Sanitary Standards Inspector
1622-03	13493	Sanitation Manager
2522-21	New	SAP Application Administrator
2393-01	23931	Satellite-Instruction Facilitator
3641-14	New	Saucier
7511-04	75112	Sausage Maker
8172-02	81729	Saw Operator
8172-05	81721	Saw Operator, Sawmill
8172-03	81721	Saw Operator, Wet Timber
8172-04	81721	Saw Operator, Wood
7224-04	72244	Saw Repairer
7224-06	72244	Saw Servicer
7224-05	72244	Saw Sharpener
3122-08	31225	Sawmill Supervisor
3122-10	31225	Sawyer Supervisor
7113-05	71132	Sawyer, Stone
7119-04	71193	Scaffolder
6211-11	62111	Scaler, Log

MASCO 2013	MASCO 2008	JOB TITLE
3256-11	32563	Scanning Equipment Technician
3632-14	34322	Scenery Designer
4322-30	New	Schedule Clerk (Materials)
2399-10	New	School Counsellor
1615-10	13452	School Director
2391-03	23911	School Inspector
4121-16	33491	School Secretary
7311-03	73111	Scientific Instrument Maker
2426-02	21319	Scientific Officer, Grade C41
3631-12	34315	Scientific Photographer
2133-16	New	Scientist
9611-02	96113	Scrap Handler
9612-03	New	Scrap Merchant
7321-08	New	Screen Maker
7322-10	New	Screen Printer
7322-11	New	Screen Printing Press Operator
2166-23	New	Screenwriter
4414-03	44143	Scribe
2831-16	26414	Script Writer
3639-09	New	Script-Girl/Boy
2841-01	26511	Sculptor
2352-02	New	Sculpture Teacher
6221-13	New	Seafood Farmer
7231-14	New	Sealant Installer
2361-05	New	Second Language Teacher
2331-02	23301	Secondary Education Teacher
4121-06	41208	Secretarial Administrative Assistant
0311-04	New	Secretariat Branch Officer
4121-08	41201	Secretary
1112-05	New	Secretary General of Treasury
1112-19	11121	Secretary of Commission
1112-30	11123	Secretary of Embassy
1112-21	11121	Secretary of Government, Non-Legislative
1112-38	New	Secretary of the House of Representatives
1112-37	New	Secretary of the Senate
1112-14	11121	Secretary-General of Ministry
1114-10	11145	Secretary-General, Environmental Protection Organisation
1114-07	11145	Secretary-General, Human Rights Organisation
1114-08	11145	Secretary-General, Humanitarian Organisation
1114-06	11145	Secretary-General, Red Crescent Organisation
1114-09	11145	Secretary-General, Red Cross Organisation
1114-05	11145	Secretary-General, Special Interest Organisation
1114-11	11145	Secretary-General, Wildlife Protection Organisation
3311-01	33111	Securities Broker
2511-56	New	Security Analyst (IT)
5414-01	54142	Security Assistant, Grade KP17
5414-11	54145	Security Guard
5414-02	54144	Security Guard, Grade KP11
1623-01	14352	Security Manager
2919-01	24492	Security Officer, Grade KP41
1623-02	New	Security Operation Manager
5414-17	New	Security Patrolman
2529-04	New	Security Specialist (IT)
5414-15	New	Security Supervisor
2113-35	New	Sedimentologist
2113-30	New	Seismic Stratigrapher
2112-07	21123	Seismologist
1412-08	14121	Self-Service Restaurant Manager
2152-19	21525	Semiconductor Engineer
3511-13	35112	Semi-Conductor Technician
3641-06	34341	Senior Chef
1114-13	11145	Senior Official of Humanitarian Organisation
1114-12	11145	Senior Official of Special Interest Organisation

MASCO 2013	MASCO 2008	JOB TITLE
2915-01	24452	Senior Police Officer (Inspector), Grade YA13
8351-06	83502	Senior Sailor
8131-20	81313	Separator Operator, Chemical Processes
9621-02	33437	Sergeant-at-arms, Grade N11
3341-01	33436	Sergeant-at-Arms, Grade N27
6123-02	New	Sericulturist
2131-05	21316	Serologist
3141-17	32122	Serology Technician
5245-02	52452	Service Station Attendant
3632-22	New	Set Designer
8172-16	81729	Setter, Veneer
7613-03	75233	Setter, Wood Machine
8221-47	New	Setter-operator
8221-50	82214	Setter-Operator, Boring and Drilling Machine
8221-51	82215	Setter-Operator, Honing Machine
8221-48	82212	Setter-Operator, Lathe
8221-44	82211	Setter-Operator, Metalworking Machine
8221-52	82216	Setter-Operator, Milling Machine
8221-53	82217	Setter-Operator, Reaping Machine
8221-49	82213	Setter-Operator, Shaping Machine
3257-34	New	Sewage Disposal Inspector
3132-08	31328	Sewage Plant Operator
2143-02	21428	Sewerage and Sanitation Engineer
1622-13	New	Sewerage Manager
8153-01	81531	Sewing Machine Operator
8153-03	81532	Sewing Machine Operator, Crochet
8153-04	81533	Sewing Machine Operator, Embroidery
8153-02	81531	Sewing Machine Operator, Leather
5153-06	51534	Sexton
4312-24	43115	Share and Stock Registration Clerk
2511-49	New	Sharepoint Consultant (IT)
2511-51	New	Sharepoint Specialist (IT)
2511-50	New	Sharepoint Technical Specialist (IT)
3342-01	44196	Shariah Assistant, Grade LS17
2611-09	26122	Shariah Officer, Grade LS41
7213-09	72135	Sheet Metal Worker, Aircraft
7213-08	72135	Sheet Metal Worker, Ornamental
8141-17	93222	Sheet Rubber Maker
7213-03	72131	Sheet-Metal Worker
7213-07	72135	Sheet-Metal Worker, Vehicle
9334-01	93341	Shelf Filler
6121-08	92121	Shepherd
3255-08	New	Shiatsu Therapist
3129-07	31224	Shift Supervisor
5111-01	51111	Ship Cabin Attendant
2172-03	21721	Ship Captain
2171-03	21712	Ship Construction Engineer
2171-01	21712	Ship Engineer
7239-02	72336	Ship Mechanic
2172-08	21724	Ship Navigator
2172-05	21722	Ship Pilot
7214-03	72143	Ship Plater
8351-04	83501	Ship Quatermaster
5111-10	New	Ship Steward/Stewardess
3152-06	New	Ship Technician
3331-03	33312	Shipping Agent
3324-02	New	Shipping Broker
4321-25	43214	Shipping Clerk
2179-02	21792	Shipping Executive
1324-12	13245	Shipping Manager
7214-06	72146	Shipwright, Metal
7115-08	71155	Shipwright, Wood
2163-10	34324	Shoe Designer

MASCO 2013	MASCO 2008	JOB TITLE
7623-01	75331	Shoemaker
7623-03	75332	Shoemaker, Orthopaedic
9511-03	New	Shoe-Polisher
5223-02	52231	Shop Assistant
5222-01	New	Shop Supervisor
5221-01	52211	Shopkeeper
1221-09	12213	Shopping Centre Manager
9411-03	New	Short Order Cook
4131-04	41311	Shorthand Typist
7632-02	New	Shotfirer
8312-03	83123	Shunter, Railway
7114-03	71142	Shutterer, Concrete
7114-02	71142	Shutterer, Concrete Moulding
2511-55	New	Siebel Customer Relationship Management (CRM) Consultant (IT)
2512-24	New	Siebel Developer (IT)
2519-12	New	Siebel Solution Architect
2511-52	New	Siebel Specialist (IT)
2519-13	New	Siebel Technical Architect
8131-19	81313	Sieving Machine Operator, Chemical Processes
2833-07	New	Sign Language Interpreter
7316-11	New	Sign Writer
8312-02	83122	Signaller, Railway
6211-12	62113	Signalman, Log
7131-10	71327	Signpainter
3622-12	34224	Silat Coach
8151-04	81511	Silk Reeler
7316-06	73162	Silverer, Mirror
7313-03	73131	Silversmith
3143-05	31431	Silviculture Technician
2133-14	21334	Silviculturist
2833-02	26436	Simultaneous Interpreter, Grade N41
2842-15	26524	Singer
2351-02	New	Singing Teacher
2221-13	32211	Sister
4322-19	43221	Site Coordinator
2142-14	21421	Site Engineer
2183-03	New	Site Executive
1323-06	13233	Site Manager
3123-04	31232	Site Supervisor
9312-03	96293	Site Worker, General
2381-02	23805	Skill Training Trainer
7119-05	71194	Skilled Demolition Worker
6111-19	New	Skilled Farm Worker (Field Crops)
6114-03	New	Skilled Farm Worker (Mixed Crops)
6131-03	New	Skilled Farm Worker (Mixed Farming)
6121-03	61212	Skilled Farm Worker, Mixed Animal Husbandry
6221-04	New	Skilled Fish Farm Worker
6221-06	New	Skilled Seafood Farm Worker
6211-15	62113	Skilled Worker, Forestry
7511-01	75111	Slaughterer
5142-10	New	Slimming Consultant
7231-22	New	Small Engine Mechanic
8121-30	81217	Smelting Operator
9329-08	93224	Smokehouse Stoker
2847-08	26575	Snake Charmer
4312-04	43123	Social and Economic Data Enumerator
3713-01	33531	Social Benefit Assistant
2913-01	33531	Social Benefits Officer
5169-01	New	Social Escort
3611-02	44165	Social Research Assistant, Grade N17
2822-01	26327	Social Research Officer, Grade N41
2913-02	33532	Social Security Claims Officer
3713-02	33532	Social Security Claims Officer

MASCO 2013	MASCO 2008	JOB TITLE
3611-10	34121	Social Welfare Worker
3611-11	34121	Social Welfare Worker, Case Work
1614-01	13441	Social Work Manager
1614-02	13441	Social Work Operation Manager
3611-03	34121	Social Worker
3611-12	34121	Social Worker, Child Welfare
3611-14	34121	Social Worker, Community
3611-13	34121	Social Worker, Delinquency
3611-04	34121	Social Worker, Group Work
3611-15	34121	Social Worker, Medical
2825-03	26351	Social Worker, Professional
3611-16	34121	Social Worker, Psychiatric
2822-03	26321	Sociologist
2913-04	New	SOCSO Officer
2512-03	25123	Software Designer
2512-01	25121	Software Developer
2512-08	New	Software Engineer (.Net)
2512-23	New	Software Engineer (Sharepoint) (IT)
2514-02	25141	Software Programmer
2514-18	New	Software Programmer (.Net)
2519-11	New	Software QA Engineer (IT)
2519-01	25192	Software Tester
2393-03	New	Software Trainer
2133-11	21334	Soil Conservationist
3111-15	31114	Soil Laboratory Assistant
3142-06	31423	Soil Science Technician
2133-13	21334	Soil Scientist
2165-10	21653	Soil Surveyor
3111-14	31114	Soil Technician
3131-10	New	Solar Power Plant Operator
7213-15	72126	Solderer
7213-14	72124	Solderer, Metal
2611-28	26111	Solicitor
2611-03	26113	Solicitor, Grade L41
2519-08	New	Solution Architect (IT)
2831-14	26414	Song Writer
3211-08	New	Sonographer
3256-12	32564	Sonographer
9329-02	93292	Sorter
9212-06	92126	Sorter, Egg
7515-15	New	Sorter, Paddy
7516-05	75165	Sorter, Tobacco
3521-09	35212	Sound Editor
3521-06	35212	Sound Effects Technician
3521-08	35212	Sound Mixer
2514-14	New	Sound Programmer
2152-17	21524	Sound System Engineer
3641-04	34345	Sous Chef
5142-07	51427	Spa Masseur
5142-09	51429	Spa Therapist
1111-15	New	Speaker of the House Representatives
3639-04	New	Special Effects Technician
5164-01	New	Specialised General Worker (Mahout), Grade R3
9622-02	96292	Specialised General Worker, Grade R3
2221-17	32212	Specialised Nurse
2221-10	New	Specialist Nurse
2266-06	New	Speech Pathologist
2266-02	22662	Speech Therapist
2831-22	New	Speech Writer
7215-09	72156	Splicer, Rope and Cable
7113-14	71139	Splitter, Sand
7113-02	71131	Splitter, Stone
1621-01	14311	Sports Activity Manager

MASCO 2013	MASCO 2008	JOB TITLE
3339-04	33393	Sports Agent
1621-15	14313	Sports and Recreation Manager
2846-12	New	Sports Announcer
1621-13	14313	Sports Centre Manager
3622-08	34221	Sports Coach
3622-20	34229	Sports Instructor
1621-05	14313	Sports Manager
3622-06	34221	Sports Official
3339-06	33395	Sports Organiser
2824-10	New	Sports Psychologist
2832-13	New	Sports Writer
3621-01	34211	Sportsperson
7132-01	71329	Spray Painter
7132-02	71321	Spray Painter, Metal
7132-03	71322	Spray Painter, Vehicles
8131-13	81312	Spray-Dried Operator, Chemical Processes
9329-12	New	Stacker
1621-14	14313	Stadium Manager
2424-01	24241	Staff Training Officer
2844-07	26541	Stage Director
1624-08	14314	Stage Manager
2844-13	26543	Stage Producer
3639-10	New	Stage Technician
2847-12	New	Stand-up Comedian
1111-07	11116	State Exco
1112-20	New	State Secretary
7233-12	New	Stationary Engine Fitter
3132-01	31321	Stationary Engine Operator
7233-13	New	Stationary Engine Repairer
0321-08	New	Statistical Assistant
3314-01	43124	Statistical Assistant, Grade E17
4312-03	43121	Statistical Clerk
4131-03	41311	Statistical Typist
2121-25	21209	Statistician, Agricultural
2121-08	21203	Statistician, Applied Statistics
2121-11	21205	Statistician, Biological
2121-16	21206	Statistician, Business and Economics
2121-23	21209	Statistician, Demography
2121-13	21206	Statistician, Economics
2121-17	21207	Statistician, Education
2121-19	21208	Statistician, Engineering
2121-14	21206	Statistician, Finance
2121-02	21204	Statistician, Grade E41
2121-12	21205	Statistician, Health
2121-15	21206	Statistician, Market Research
2121-20	21208	Statistician, Mathematical
2121-21	21208	Statistician, Physical Science
2121-24	21209	Statistician, Public Opinion
2121-18	21207	Statistician, Social Science
2121-09	21203	Statistician, Survey
2425-14	33435	Statutory Body Executive Officer
2144-24	21445	Steam Engineer
7114-05	71143	Steel Bender
7114-09	71146	Steel Fixer
8121-32	New	Steel Roller
7119-07	71196	Steeplejack
4131-02	41311	Stenographer
4121-12	41201	Stenographer Secretary
4121-13	41201	Stenography Typing Secretary
7316-08	73163	Stereotyper
5329-04	New	Sterilisation Aide
9333-04	93331	Stevedore
5111-06	51115	Steward/Stewardess



MASCO 2013	MASCO 2008	JOB TITLE
5111-02	51112	Steward/Stewardess Coordinator
5111-03	51112	Steward/Stewardess Supervisor
0321-01	New	Stewardess
3139-03	31342	Stillman
3134-02	31342	Stillman (Petroleum Refining)
7621-09	75314	Stitcher
3311-02	33112	Stock and Share Broker
3311-04	33114	Stock Broker
4321-19	43212	Stock Clerk
4321-17	43212	Stock Control Clerk
9334-02	43212	Stock Filler
9334-03	43212	Stock Handler
4321-21	43212	Stock Record Clerk
4321-08	New	Stock Worker
2261-15	New	Stomatologist
7113-03	71132	Stone Lathe Worker
7112-02	71123	Stonemason
7113-13	71122	Stonemason
7112-05	71135	Stonework Layout Man
1324-11	13242	Storage Manager
4321-11	43211	Store Assistant
4321-06	43211	Store Clerk
4321-12	43211	Store Controller
4321-16	43211	Store Coordinator
2182-07	21824	Store Executive
4321-10	43211	Store Receiving Assistant
3129-06	31224	Store Supervisor
4321-13	43211	Storekeeper
4321-40	New	Storeroom Clerk
2845-03	26552	Story Teller
2845-04	26552	Story Teller, Radio / Television
1213-02	New	Strategic Planning Manager
2114-34	21149	Stratigraphist
9511-01	New	Street Car Washer
5212-02	52122	Street Food Vendor
5211-01	52111	Street Stall Salesperson
7312-03	73122	Stringed Instrument Maker
2142-40	New	Structural Engineer
7214-01	72141	Structural Steel Worker
2521-09	New	Structured Query Language (SQL) Database Administrator
2511-17	New	Structured Query Language (SQL) Database Analyst
2521-10	New	Structured Query Language (SQL) Database Engineer
2521-11	New	Structured Query Language (SQL) Database Specialist
3639-12	New	Stunt Artist
3639-11	New	Stunt Coordinator
2832-14	New	Sub Editor
6341-08	New	Subsistence Collector
6311-01	63101	Subsistence Crop Grower
6341-07	New	Subsistence Fisherman
6321-01	63201	Subsistence Livestock Farmer
6331-01	63301	Subsistence Mixed Crop and Livestock Farmer
2833-08	New	Subtitled
8131-34	81314	Sulphur Burner
4412-05	44123	Summons Server
2911-01	24411	Superintendent of Customs, Grade W41
2919-04	24493	Superintendent of Prison, Grade KX41
1221-08	12213	Supermarket Manager
5222-03	New	Supermarket Supervisor
3129-04	31293	Supervisor
6211-21	62113	Supervisor, Log
6111-18	31425	Supervisor, Plantation
4321-02	43211	Supply Clerk
1324-03	13242	Supply Manager

MASCO 2013	MASCO 2008	JOB TITLE
3323-09	New	Supply Officer
0211-03	New	Supply Officer
3322-20	33227	Support Salesperson
3111-31	New	Surface Weather Observer
2212-17	22129	Surgeon
2212-19	22129	Surgeon, Cardiology
2212-20	22129	Surgeon, Cardiothoracic
2212-28	22129	Surgeon, Ear, Nose and Throat
2212-18	22129	Surgeon, Hepatic
2212-27	22129	Surgeon, Neurosurgery
2212-21	22129	Surgeon, Ophthalmology
2212-22	22129	Surgeon, Orthopaedic
2212-23	22129	Surgeon, Osteopathic
2212-24	22129	Surgeon, Paediatric
2212-26	22129	Surgeon, Plastic and Reconstructive
2212-29	22129	Surgeon, Thoracic
2212-25	22129	Surgeon, Transplant
2212-30	22129	Surgeon, Traumatology
2212-31	22129	Surgeon, Urology
2212-32	22129	Surgeon, Vascular
7311-02	73111	Surgical Instrument Maker
3212-15	New	Surgical Technician
4226-03	42273	Survey Interviewer
3112-11	31191	Surveying Assistant
3112-10	31191	Surveying Technical Assistant
3112-18	New	Surveying Technician
3119-01	31198	Surveying Technician, Grade J17
2165-08	21652	Surveyor
2165-02	21655	Surveyor, Grade J41
9613-03	96132	Sweeper, Floor
9613-02	96132	Sweeper, Park
9613-01	96131	Sweeper, Road
9613-07	New	Sweeper, Street
3622-17	34227	Swimming Coach
3622-23	New	Swimming Instructor
5419-08	54196	Swimming Pool Attendant
7514-04	75143	Syrup Maker
2522-13	25221	System Administrator
2512-19	New	System Architect (IT)
2522-19	New	System Engineer (IT)
2511-42	New	System Engineer (Oracle)
3511-17	New	System Operator
2514-07	25144	System Programmer
2141-07	21413	Systems Analyst (Except Computers)
2141-11	21413	Systems Design Engineer
2152-12	21523	Systems Engineer
2141-10	21413	Systems Engineer (Except Computers)
2519-02	25193	Systems Tester
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3622-13	34224	Taekwando Coach
3622-15	34226	Tai Chi Coach
7621-02	75311	Tailor
1212-10	New	Talent and Organisation Performance Manager
2423-19	New	Talent Management Specialist
4321-26	43215	Tally Clerk
7625-02	75351	Tanner
5112-09	New	Transport Conductor
7515-05	75152	Taster and Grader, Coffee
7515-06	75153	Taster and Grader, Food
7515-07	75154	Taster and Grader, Liquor
7515-04	75151	Taster and Grader, Tea

MASCO 2013	MASCO 2008	JOB TITLE
7515-02	New	Taster, Beverages
7515-01	New	Taster, Food
7515-11	75157	Taster, Juice
2411-12	24114	Tax Accountant
3712-04	New	Tax Assistant
4312-20	43115	Tax Clerk
2411-13	24114	Tax Consultant
3712-02	33521	Tax Estimator Assistant
2912-06	New	Tax Officer
3712-05	New	Taxation Inspector's Assistant
3141-11	31416	Taxidermist
2131-15	21311	Taxonomist
2131-17	21313	Taxonomist, Animal
2131-16	21312	Taxonomist, Plant
9112-11	91125	Tea Lady
2399-07	23601	Teacher for the Exceptionally Intelligent
2399-09	23914	Teacher, Adult Education
2399-08	23912	Teacher, Home Economics
2392-03	23923	Teacher, Special Education for the Blind
2392-01	23921	Teacher, Special Education for the Deaf
2392-02	23922	Teacher, Special Education for the Dumb
2392-04	23924	Teacher, Special Education for the Mentally Disabled
2392-05	23925	Teacher, Special Education for the Physically Disabled
2321-01	23201	Teacher, Technical
2399-11	New	Teacher, Tuition
2321-02	23201	Teacher, Vocational
5312-02	53121	Teacher's Aide
2391-05	23915	Teaching Aid Specialist
2144-37	New	Technical Technology Engineer
3322-09	33225	Technical Adviser
2512-20	New	Technical Architect (IT)
2166-22	New	Technical Illustrator
0211-02	New	Technical Officer
2514-03	25141	Technical Programmer
3322-08	33225	Technical Sales Agent
2433-11	New	Technical Sales Representative
2149-13	21493	Technical Service Adviser
2511-25	New	Technical Specialist (.Net)
2522-20	New	Technical Specialist (IT)
2511-31	New	Technical Specialist (Java)
2511-36	New	Technical Writer
2831-17	26414	Technical Writer
3112-09	New	Technician
3112-03	31125	Technician (Architectural), Grade J17
3115-02	New	Technician (Automotive), Grade J17
3112-02	31124	Technician (Civil), Grade J17
3113-01	31136	Technician (Electrical ), J17
3114-01	31144	Technician (Electronics), J17
3115-01	31153	Technician (Mechanical), Grade J17
3112-01	New	Technician, Grade J17
2142-11	New	Technologist
2142-15	21422	Technologist, Building Materials
2131-67	New	Technologist, Green Technology
2153-01	New	Telecommunications Engineer
2153-02	21531	Telecommunications Engineer, Aerospace
2153-06	21533	Telecommunications Engineer, Microwave
2153-03	21531	Telecommunications Engineer, Radar
2153-07	21533	Telecommunications Engineer, Radio
2153-04	21531	Telecommunications Engineer, Signal Systems
2153-09	21533	Telecommunications Engineer, Telegraph
2153-08	21533	Telecommunications Engineer, Telephone
2153-10	21533	Telecommunications Engineer, Television
2153-05	21532	Telecommunications Engineering Technologist

MASCO 2013	MASCO 2008	JOB TITLE
3521-18	35216	Telecommunications Equipment Technician
4223-01	New	Telecommunications Service Operator
4223-06	42233	Telecommunications Service Supervisor
3522-04	New	Telecommunications Technician
5244-07	42224	Telemarketer
7422-02	74221	Telephone and Telegraph Installer
7422-03	74222	Telephone and Telegraph Mechanic
7422-04	74222	Telephone and Telegraph Servicer
4223-03	42231	Telephone Exchange Telephone Operator
4224-04	42264	Telephone Receptionist
4223-05	42232	Telephone Switchboard Operator
7422-01	74221	Telephone Wireman
4223-04	42231	Telephonist
5244-04	New	Telesales Agent
5244-05	New	Telesales Executive
5244-06	New	Telesales Representative
4131-06	41311	Teletypist
2832-15	New	Television / Radio News Reporter
2846-03	26561	Television Announcer
2844-18	New	Television or Radio Technical Director
8181-14	81845	Temperer, Glass
3622-14	34225	Tennis Coach
3621-06	New	Tennis Player
3716-06	33566	Territorial Army Personnel
0121-15	New	Territorial Army Regiment Officer
2519-07	New	Test Engineer (IT)
3115-24	31158	Test Technician (Mechanical)
7224-07	72245	Textile Card Grinder
2163-07	21632	Textile Designer
7318-07	New	Textile Fibre Comber
7318-08	New	Textile Fibre Rover
7322-02	73223	Textile Printer
2141-22	21416	Textile Technologist
2844-10	26541	Theatre Director
1624-10	New	Theatre Manager
2844-14	26543	Theatre Producer
3639-13	New	Theatre Technician
3339-05	33394	Theatrical Agent
3632-19	34325	Theatrical Set Designer
2265-05	22651	Therapeutic Dietician
2264-09	22642	Therapeutic Masseur
2144-32	New	Thermal Engineer
2144-33	New	Thermal Mechanical Solution Engineer
2151-18	New	Thermal/Optic Specialist (LED)
2111-10	21112	Thermodynamicist
7318-10	New	Thread and Yarn Spinner
8151-03	81511	Thread and Yarn Spinner
8151-02	81511	Thread and Yarn Winder
7224-11	72249	Thread Grinder
7314-06	73145	Thrower, Pottery and Porcelain
5112-02	51122	Ticket Inspector
7122-06	71225	Tile Layer
7122-02	71221	Tile Setter
8111-09	81119	Timberman, Underground
2141-14	21414	Time and Motion Engineer
4311-22	43117	Time Clerk
7213-13	New	Tinsmith
3141-03	32122	Tissue Culture Technician
7516-07	75167	Tobacco Dryer
7516-08	75168	Tobacco Slicer
1113-07	11134	<i>Tok Batin</i>
1113-05	11132	<i>Tok Sidang</i>
5231-20	New	Toll Teller

MASCO 2013	MASCO 2008	JOB TITLE
7222-03	72221	Tool and Die Maker
7224-13	New	Tool Grinder
8113-13	New	Toolpusher
7221-06	72215	Toolsmith
2165-11	21653	Topographic Surveyor
5113-08	New	Tour Escort
2432-13	24323	Tourism Officer
5113-01	51131	Tourist Guide
8113-14	New	Tourpusher
3118-03	31186	Town and Country Planning Technician, Grade J17
2164-03	21641	Town Planner
2134-19	21346	Toxicologist
7612-14	75229	Toy Maker, Wood
3118-24	31181	Tracer
7322-05	73226	Tracer, Textile Design
9312-07	93135	Trackman, Railway
3324-03	New	Trade Broker
7213-02	JPA	Tradesman – Boilermaker, Grade R11
7211-01	New	Tradesman – Moulder, Grade R11
7231-02	JPA	Tradesman - Tool Mechanic, Grade R17
7413-05	New	Tradesman - Wire Assembler (Switchboard), Grade R9
7222-01	New	Tradesman K1 – Toolmaker, Grade R17
7126-01	71263	Tradesman K1, Grade R17
8212-01	New	Tradesman K2 - Assembler (Aerial), Grade R11
7221-01	New	Tradesman K2 – Blacksmith, Grade R11
7215-01	New	Tradesman K2 - Cable Splicer, Grade R11
7411-01	New	Tradesman K2 – Electrician, Grade R11
7413-02	New	Tradesman K2 - Equipment Wiring (Electric), Grade R 9
8211-01	New	Tradesman K2 - Fitter (Machinery), Grade R11
7612-01	New	Tradesman K2 - Furniture Maker, Grade R11
7231-01	New	Tradesman K2 - Mechanic (Motor Vehicle), Grade R11
7127-01	New	Tradesman K2 - Refrigeration Mechanic, Grade R11
7213-01	JPA	Tradesman K2 - Sheet-Metal Worker, Grade R11
7212-01	JPA	Tradesman K2 - Welder (Actelene), Grade R11
7212-02	JPA	Tradesman K2 - Welder (Electric), Grade R11
7126-02	71264	Tradesman K2, Grade R11
8219-01	New	Tradesman K3 - Apparatus Assembler, Grade R9
7115-01	JPA	Tradesman K3 – Carpenter, Grade R9
7413-01	New	Tradesman K3 - Electrical Wiring, Grade R9
7215-02	New	Tradesman K3 - Erector (Electrical Equipment), Grade R9
7115-02	JPA	Tradesman K3 – Joiner, Grade R9
7222-02	New	Tradesman K3 – Loopmaker, Grade R9
7413-04	New	Tradesman K3 - Maintenance (Telecommunications), Grade R9
7412-03	New	Tradesman K3 - Maintenance R9
7113-01	New	Tradesman K3 – Mason, Grade R9
7131-01	New	Tradesman K3 - Painter and Writer, Grade R9
7621-01	New	Tradesman K3 – Tailor, Grade R9
7413-03	New	Tradesman K3 - Wire Assembler (Telecommunications), Grade R9
7126-03	71265	Tradesman K3, Grade R9
1113-10	11136	Traditional Chief
3231-04	32302	Traditional Chinese Medicine Dispenser
3231-02	32302	Traditional Chinese Medicine Practitioner
3231-03	32303	Traditional Indian Medicine Practitioner
3231-01	32301	Traditional Malay Medicine Practitioner
2231-02	22302	Traditional Medical Specialist
3222-02	32221	Traditional Midwife
5419-14	54123	Traffic Controller
2164-05	21642	Traffic Engineer
2164-06	21642	Traffic Planner
5419-12	New	Traffic Warden
5112-04	51121	Train Conductor
7239-03	New	Train Engine Fitter
7239-04	New	Train Engine Repairer

MASCO 2013	MASCO 2008	JOB TITLE
3153-01	New	Train Technician
2848-02	26582	Trainer in Crocodile Farm
2848-01	26581	Trainer in Zoo, Bird and Aquatic Parks
4419-02	23806	Training Assistant, Grade E17
2423-15	New	Training Consultant
1212-02	12125	Training Manager
2399-01	23804	Training Officer, Grade E41
2423-20	New	Training Specialist
5112-10	New	Tram Conductor
1211-13	12117	Transaction Monitoring Manager
2833-03	26431	Translator
2833-09	New	Translator-Reviser
4323-02	43231	Transport Clerk
1324-02	13241	Transport Manager
6224-02	62242	Trapper
4221-03	42213	Travel Agency Clerk
1621-03	14313	Travel Agency Manager
4221-05	42213	Travel Clerk
3332-03	33323	Travel Consultant
4221-01	New	Travel Consultant
4221-02	New	Travel Coordinator
5113-07	51134	Travel Game Park Guide
5113-02	51131	Travel Guide
3332-04	33324	Travel Organiser
5113-06	51134	Travel Sightseeing Guide
4221-06	42211	Travel Ticket Issuing Clerk
6223-03	New	Trawler Crewman
1312-05	New	Trawler Manager
1211-10	12114	Treasury Manager
8131-39	81315	Treat Operator, Radioactive Waste
9214-02	92143	Tree Cutter
6211-04	New	Tree Feller
9215-05	96296	Tree Feller
9215-04	New	Tree Planter
7234-02	72342	Trishaw Repairer
9621-21	96299	Trolley Boy
2619-04	26193	Trust Officer
1113-09	11134	<i>Tuai Rumah</i>
3112-14	31191	Tunnel Boring Machine Technician
8342-16	83429	Tunnel Concretor
8342-17	83429	Tunnel Fabricator
8342-18	83429	Tunnel Worker
3131-05	31315	Turbine Operator
7314-05	73145	Turner, Pottery and Porcelain
7612-10	75229	Turner, Wood (Hand)
2311-11	23104	Tutor
7321-04	73213	Typesetter
4121-10	41201	Typing Secretary
4131-01	41311	Typist
2166-05	21665	Typographical Designer
2145-22	21458	Tyre Technologist
<b>U</b>		
2311-04	23108	UiTM Assistant Lecturer, Grade DM29
2311-03	23107	UiTM Lecturer, Grade DM41
3256-13	32565	Ultrasonographer
1113-12	New	<i>Undang</i>
5163-02	51631	Undertaker
7631-04	New	Underwater Diver
3623-10	New	Underwater Diving Instructor
7212-08	72128	Underwater Welder
7631-03	75413	Underwater Worker

MASCO 2013	MASCO 2008	JOB TITLE
2311-01	23105	University Lecturer, Grade DS45
9629-02	96293	Unskilled Labourer
7624-07	75347	Upholsterer, Aircraft
7624-01	75341	Upholsterer, Furniture
7624-09	New	Upholsterer, Orthopaedic
7624-08	75348	Upholsterer, Railway Carriage
7624-02	75342	Upholsterer, Vehicle
2164-04	21641	Urban and Rural Planner
2164-01	21643	Urban and Rural Planning Officer, Grade J41
2212-62	22129	Urologist
2371-02	23701	Ustaz / Ustazah
<b>V</b>		
6129-02	61296	Vaccinator
8131-26	81314	Vacuum Pan Chemical Operator (Except Petroleum and Natural Gas)
8161-16	81602	Vacuum Pan Operator, Condensed Milk
5162-04	51622	Valet
3315-01	43126	Valuation Assistant, Grade W17
2912-04	24219	Valuation Officer
3315-03	33153	Valuer
8171-13	New	Valve Operator
8171-07	81717	Valve Operator, Paper Pulp
2145-10	21453	Varnish Engineer
7132-04	New	Varnisher
7132-05	71325	Varnisher, Manufactured Articles
7132-06	71326	Varnisher, Metal
7132-08	New	Varnisher, Rattan
7132-07	New	Varnisher, Wood
7514-08	New	Vegetable /Fruit Pickler
6115-01	61151	Vegetable Grower
7514-05	75144	Vegetable Juice Maker
9211-14	New	Vegetable Picker
7514-02	75142	Vegetable Preserver
7231-12	New	Vehicle Body Frame Maker
3154-05	New	Vehicle Body Frame Technician
7231-13	New	Vehicle Body Panel Beater
7231-10	72318	Vehicle Foreman
3257-19	32575	Vehicle Safety Inspector
7612-08	75227	Veneer Applier
2212-63	22129	Venereologist
2847-06	26574	Ventriloquist
3343-08	33431	Verbatim Reporter
2831-07	26412	Versifier
2251-03	22501	Veterinarian
5164-05	51641	Veterinary Aide
3241-06	32402	Veterinary Artificial Insemination Assistant
3241-05	32401	Veterinary Assistant
3241-01	32405	Veterinary Assistant, Grade G17
3241-08	New	Veterinary Biotech Production Technician
3241-03	New	Veterinary Biotech Research Technician
2426-09	New	Veterinary Biotech Researcher
2251-04	22501	Veterinary Epidemiologist
3241-09	New	Veterinary Nurse
2251-01	22504	Veterinary Officer, Grade G41
2251-05	22502	Veterinary Surgeon
3241-02	New	Veterinary Technician
3241-04	32403	Veterinary Vaccinator
1615-09	13452	Vice Chancellor
2166-26	New	Video Game Artist
2514-12	New	Video Game Programmer
4214-11	42145	Video Tape Rental Clerk
3521-23	New	Videographer



MASCO 2013	MASCO 2008	JOB TITLE
1113-04	11132	Village Head
3231-05	32307	Village Healer
3253-04	New	Village Health Worker
2131-06	21316	Virologist
2166-17	New	Virtual Environment Designer
3632-10	34322	Visual Merchandiser
2391-06	23915	Visual Teaching Aid Specialist
2166-34	New	Visualisation Specialist
2842-12	26523	Vocal Group Conductor
2423-13	New	Vocational Guidance Counsellor
2424-02	24242	Vocational Staff Training Officer
2399-06	23995	Vocational Student Counsellor
2381-01	23801	Vocational Training Assistant/ Assistant Vocational Training Officer/ Vocational Training Officer, Grade J17
2151-17	New	Voltage Regulator Designer
<b>W</b>		
3719-07	33595	Wage Inspector
4313-02	43131	Wages Clerk
5131-01	51311	Waiter
5131-02	New	Waiter
5131-03	51314	Waiter, Banquet
7131-07	71313	Wallpaper Hanger
5153-05	51522	Warden, Camp
5153-04	51522	Warden, Dormitory
5153-03	51522	Warden, Hostel
4419-16	51514	Wardrobe Assistant
4419-04	51516	Wardrobe Supervisor, Grade N17
4321-09	43211	Warehouse Assistant
4321-03	43211	Warehouse Clerk
2182-06	21824	Warehouse Executive
1324-04	13242	Warehouse Manager
3119-25	31224	Warehouse Technician
9112-04	91125	Washer
9122-03	91224	Washer, Auto-polish
9329-05	93295	Washer, Hand Manufacturing
9122-02	91222	Washer, Vehicles (Hand)
9612-05	New	Waste Picker
3132-14	New	Waste Water Operator
3257-43	New	Waste Water Treatment Plant Inspector
7311-07	73114	Watch and Clock Maker
7311-15	73114	Watch and Clock Repairer
5414-13	54147	Watchman
9624-02	96242	Water Carrier
3257-35	New	Water Inspector
3119-04	34115	Water Supply Superintendent, Grade J17
3132-09	31328	Water Treatment Plant Operator
0311-10	New	Weapon Sensor Branch Officer
0321-05	New	Weapon Technician
2112-08	21123	Weather Forecaster
2112-15	New	Weather Service Specialist
7621-23	75319	Weaver, Fabric Gloves
7318-01	73181	Weaver, Songket
2166-31	New	Web Animator
2166-02	21662	Web Designer
7322-12	New	Web Press Operator
2512-16	New	Web Programmer (PHP)
3514-02	35141	Web Technician
2513-04	35142	Webmaster
2513-05	35143	Website Administrator
2513-03	25132	Website Architect
2513-01	25131	Website Developer

MASCO 2013	MASCO 2008	JOB TITLE
3514-01	35141	Website Technician
3332-06	New	Wedding Planner
7634-09	New	Weed Controller
4321-23	43213	Weighbridge Clerk
4321-24	43213	Weighbridge-Security Controller
4321-22	43213	Weighing Clerk
3719-06	33591	Weight and Measures Inspector
7212-03	72121	Welder
2144-27	21449	Welding Technologist
1614-04	New	Welfare Centre Manager
3611-05	34121	Welfare Officer, Industry
3611-06	34121	Welfare Officer, Probation
3611-17	34121	Welfare Organiser
3611-25	New	Welfare Support Worker
3117-16	31174	Well Acidising Treater
7126-11	71266	Well Digger
6224-04	New	Whale Hunter
4323-21	43235	Wharfinger
7234-06	New	Wheelchair Repairer
5211-08	52117	Wholesale and Retail Salesperson
1421-05	14202	Wholesale Trade Manager
1421-12	14202	Wholesale Trade Manager, Export
1421-13	14202	Wholesale Trade Manager, Import
1421-04	14202	Wholesaler
7317-10	73178	Wicker Maker
3142-02	54198	Wildlife Assistant, Grade G17
2131-01	21337	Wildlife Officer, Grade G41
5419-05	54192	Wildlife Warden
8342-09	83426	Winchman, Dredging
9329-03	93293	Winder, Hand Coil
3632-13	34322	Window Display Designer
3632-23	New	Window Dresser
3113-03	31131	Wire Cutting Technician
2152-39	New	Wirebond Engineer
4419-03	74218	Wireless Operator, Grade N17
7412-07	74123	Wireman
2825-12	New	Women's Welfare Organiser
3611-26	New	Women's Shelter Supervisor
2133-15	21334	Wood Analyst
2133-09	21334	Wood Anatomist
7115-13	71159	Wood Engraver
7611-01	75211	Wood Impregnator
7612-19	New	Wood Pattern-Maker
7613-07	New	Wood Product Machine Operator
7611-03	75212	Wood Seasoner
2141-23	21417	Wood Technologist
7611-02	75211	Wood Treater
7312-06	73124	Woodwind Instrument Maker
7613-08	New	Woodworking Lathe Operator
7613-09	New	Woodworking Machine Setter
7633-03	New	Wool Classer
4121-09	41201	Word Processing Secretary
4131-08	41312	Word Processor
2141-12	21414	Work Study Engineer
9122-04	91225	Worker, Auto-sanding
6123-07	61294	Worker, Bee Keeping
7119-01	71191	Worker, Building Maintenance
9211-21	New	Worker, Crop Farm Product
7324-05	73245	Worker, Darkroom
7221-04	72213	Worker, Drop Hammer
9216-04	62212	Worker, Fish Cage
9216-08	New	Worker, Fishery and Aquaculture Products
9214-04	92145	Worker, Golf Course Maintenance

MASCO 2013	MASCO 2008	JOB TITLE
9211-12	New	Worker, Harvesting
8141-21	93227	Worker, Heavecrumb Process
6129-03	61297	Worker, Incubator
9629-03	96295	Worker, Inflatable
7114-04	71143	Worker, Iron Reinforcing
9121-01	91211	Worker, Laundry and Dry Cleaning
9313-03	93132	Worker, Maintenance
9211-11	92113	Worker, Manuring
7221-05	72214	Worker, Metal Forging
8112-07	81123	Worker, Mineral Floatation
9214-03	92144	Worker, Playground Maintenance
9611-01	96111	Worker, Refuse Disposal
9216-07	New	Worker, Salted Egg
9216-06	New	Worker, Salted Fish
6123-08	61297	Worker, Sericulture
7621-10	75315	Worker, Sewing
9333-03	72336	Worker, Shipyard
9311-07	81129	Worker, Stone
9333-15	93353	Worker, Store
9311-03	93111	Worker, Tin Mine
9129-01	91291	Worker, Toiletries
9333-16	93354	Worker, Warehouse
9129-02	91293	Worker, Washing
2424-03	New	Workforce Development Specialist
7231-07	72315	Workshop Mechanic
7231-09	72317	Workshop Worker
9321-03	New	Wrapper (Hand)
3621-07	New	Wrestler
8152-06	81523	Wrinkle Machine Operator, Textile
2831-09	26412	Writer, Comedy
<b>X</b>		
3256-08	32561	X-Ray Equipment Technician
3211-02	32112	X-ray Technician
3211-01	32111	X-ray Technician, Grade U29
2269-01	22691	X-Ray Technician, Grade U41
<b>Y</b>		
3152-03	31522	Yacht Skipper
8312-04	83124	Yardman
8131-36	81314	Yarn Maker, Synthetic
7512-05	75126	Yeast Maker
3622-16	34226	Yoga Coach
7513-02	75132	Yogurt Maker
3622-05	41105	Youth and Sports Assistant, Grade S17
3622-01	24327	Youth and Sports Officer, Grade S41
3611-27	New	Youth Worker
<b>Z</b>		
5164-04	New	Zookeeper
3141-10	31415	Zoological Research Laboratory Assistant
3141-09	31415	Zoological Technician
2131-40	21313	Zoologist
2131-50	21315	Zoologist, Ecology
2131-41	21313	Zoologist, Embryology
2131-42	21313	Zoologist, Entomology
2131-43	21313	Zoologist, Histology
2131-44	21313	Zoologist, Ichthyology
2131-45	21313	Zoologist, Mammalogy
2131-46	21313	Zoologist, Ornithology

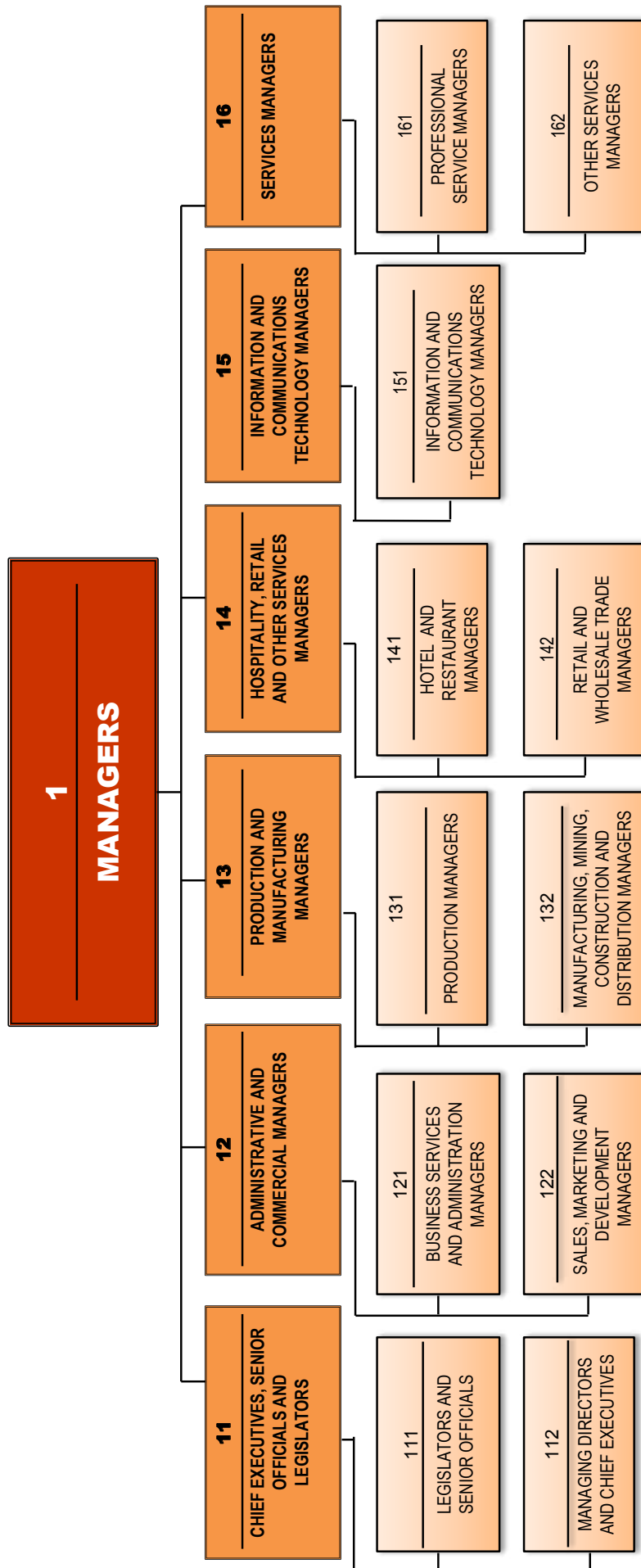
MASCO 2013	MASCO 2008	JOB TITLE
2131-47	21313	Zoologist, Parasitology
2131-48	21313	Zoologist, Pisciculture
2131-49	21313	Zoologist, Taxonomy
2511-21	New	.Net Consultant
2512-05	New	.Net Developer
2514-17	New	.Net Programmer
2514-10	New	.NetAnalyst Programmer
2511-22	New	.NetApplication Consultant
2511-19	New	.NetProgrammer Analyst





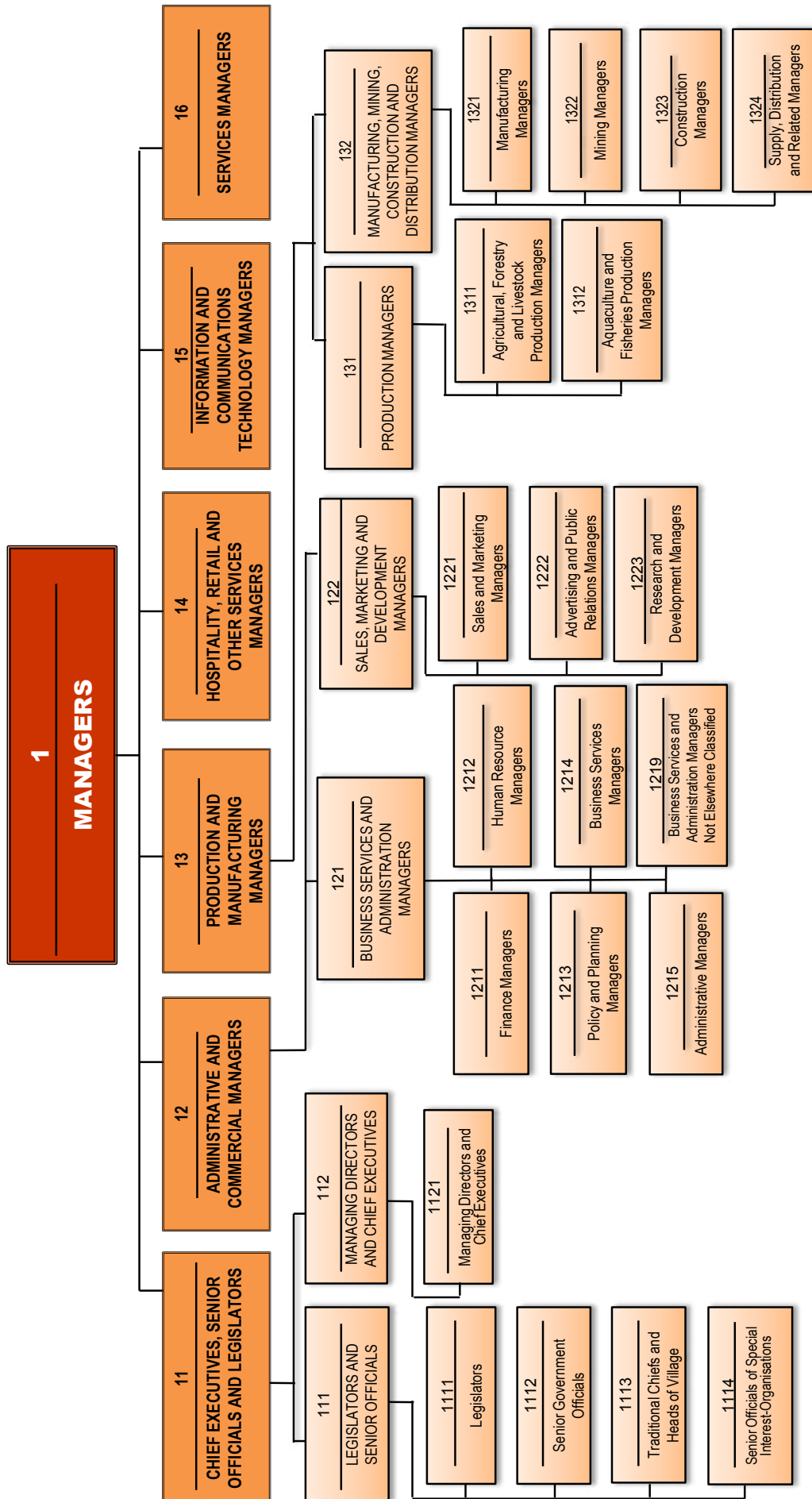
# MASCO CHART

# MAJOR GROUP 1 MANAGERS

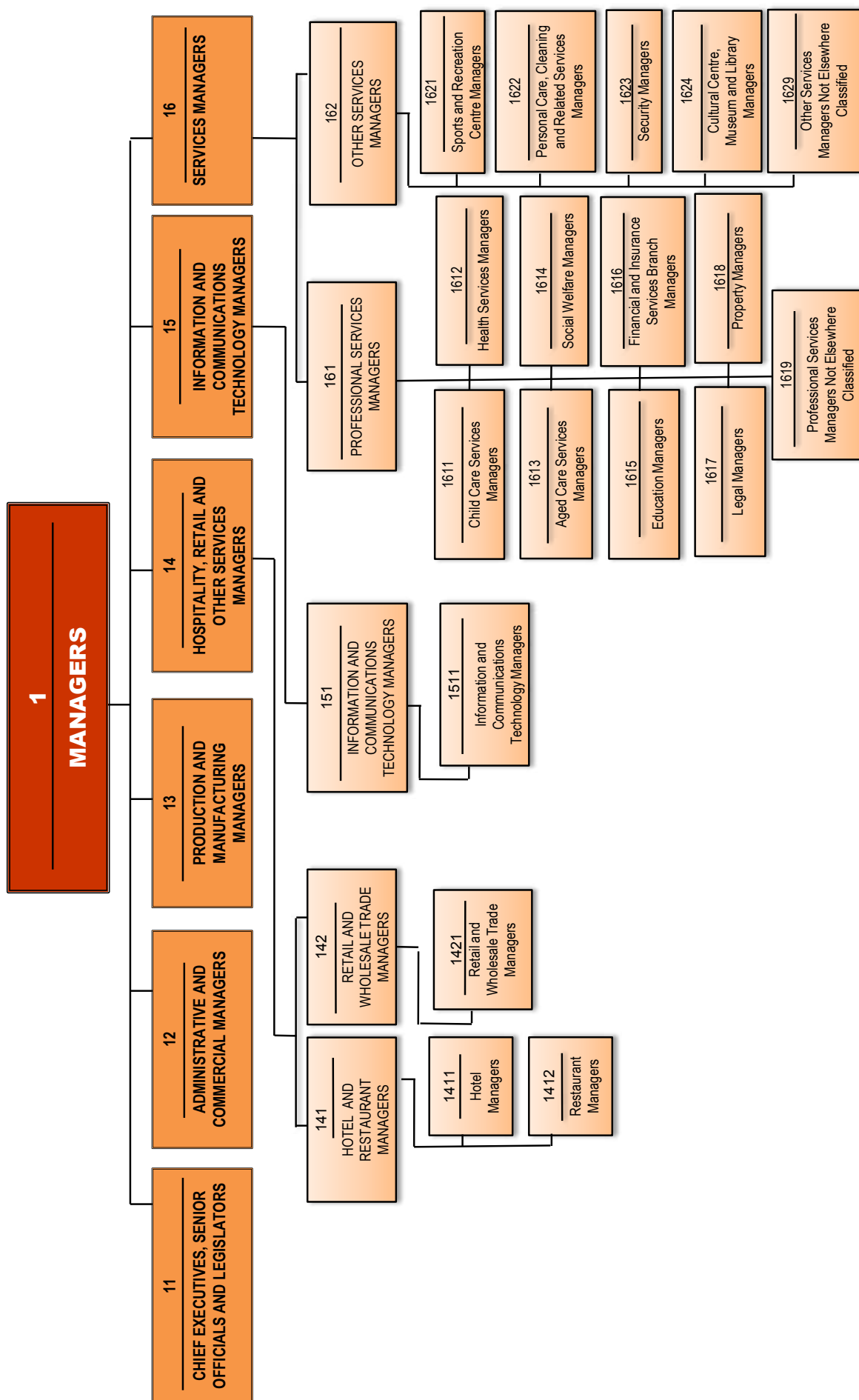




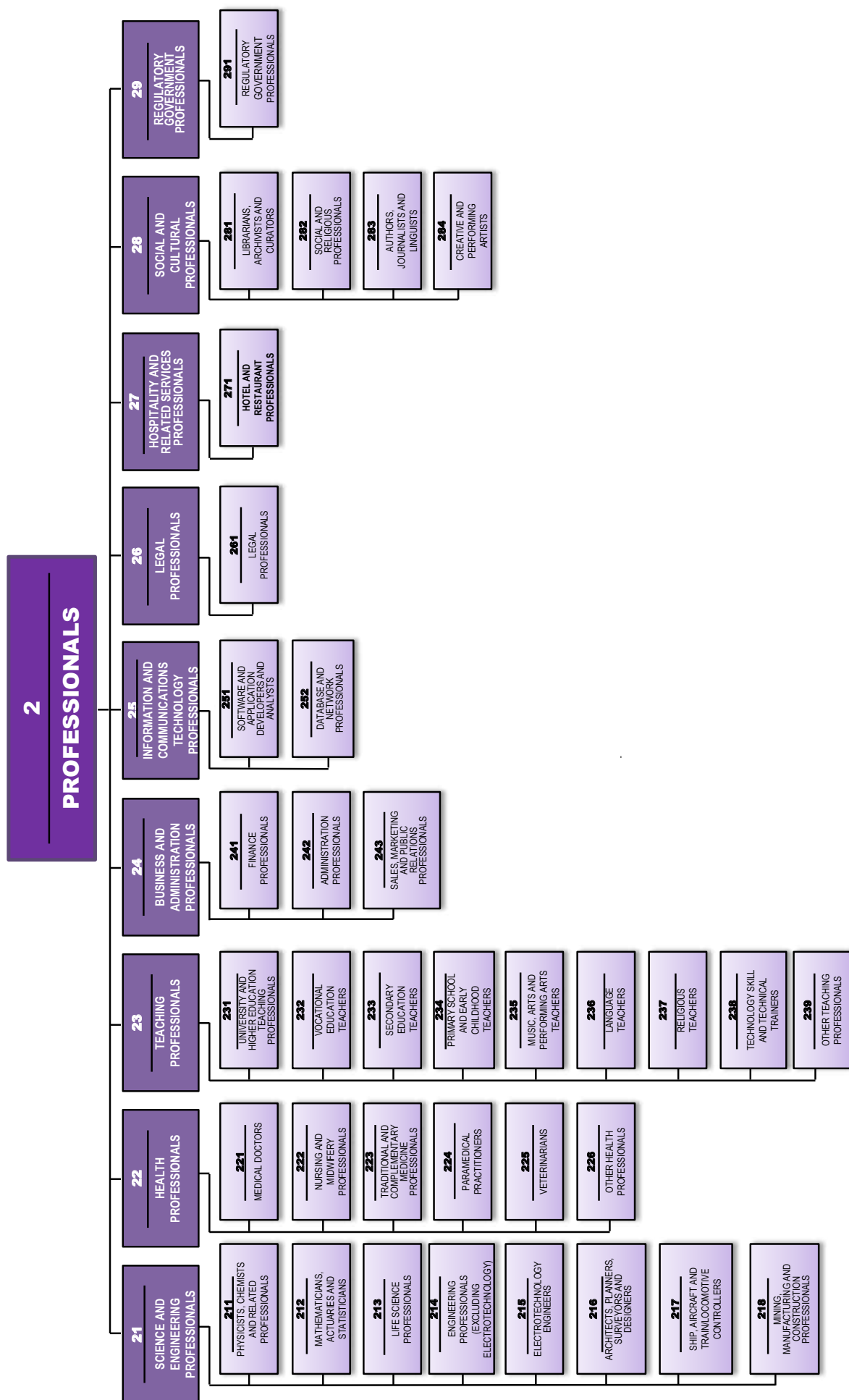
# MAJOR GROUP 1 MANAGERS



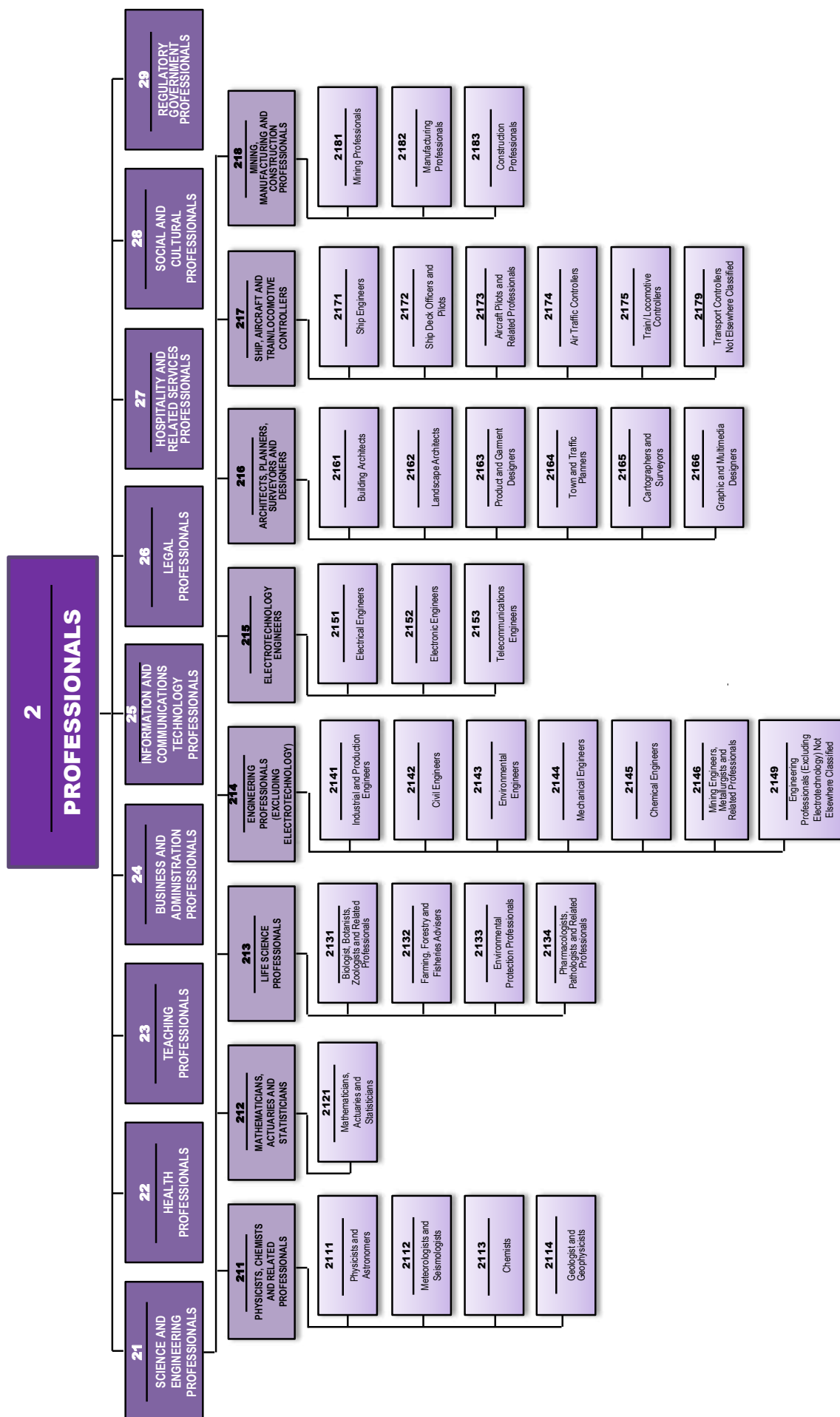
# MAJOR GROUP 1 MANAGERS



# MAJOR GROUP 2 PROFESSIONALS



# MAJOR GROUP 2 PROFESSIONALS

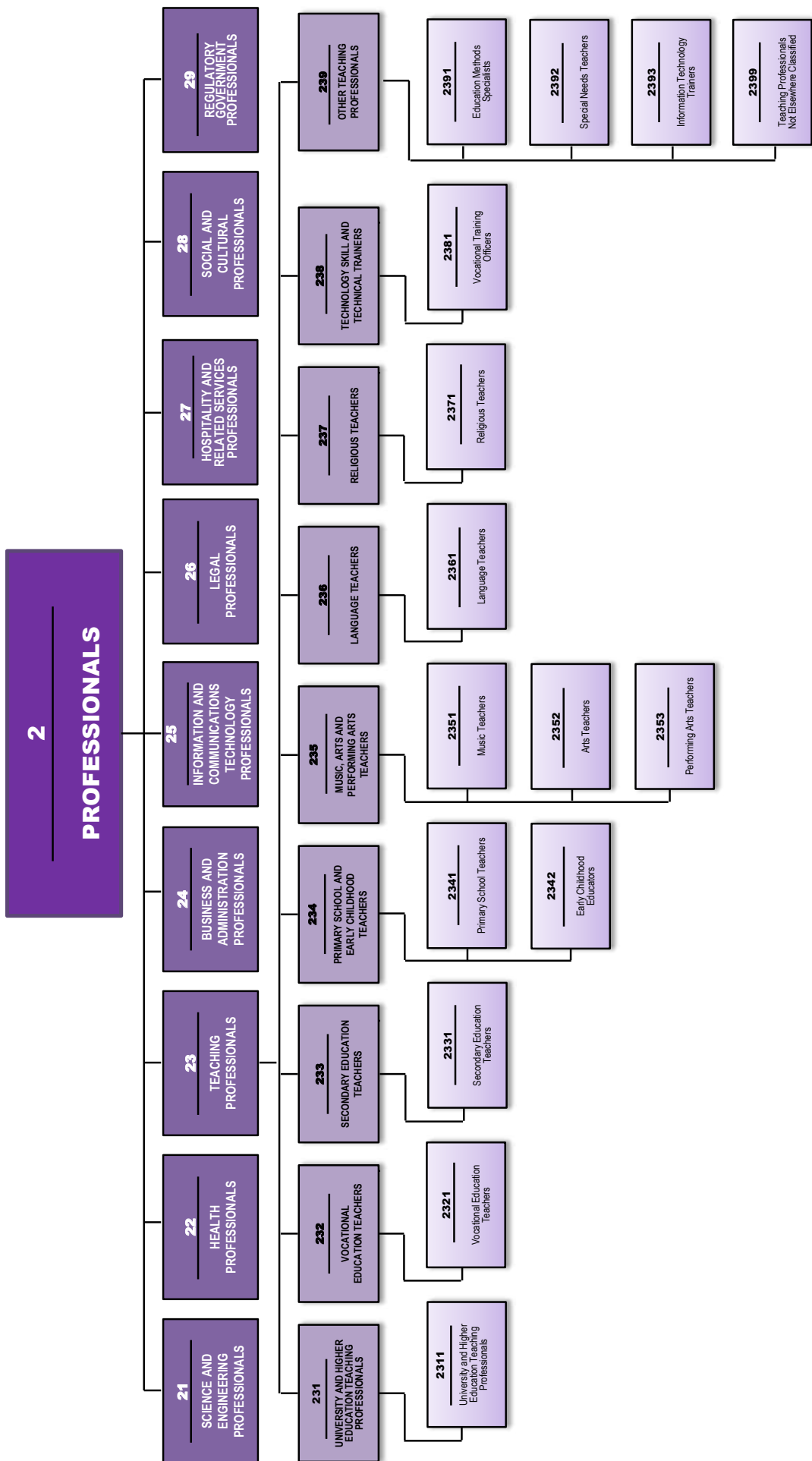


**2**

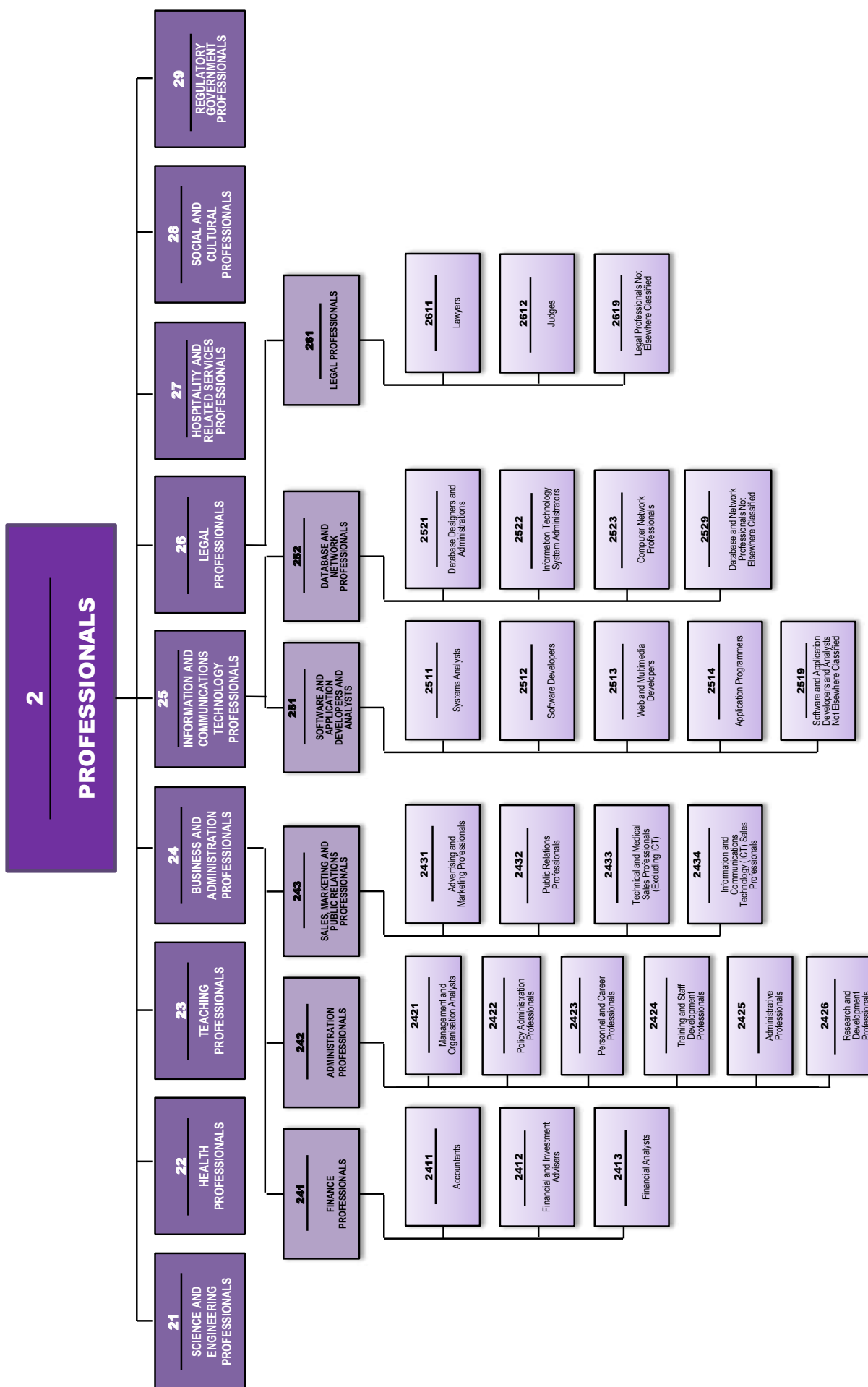
**PROFESSIONALS**

- 21 SCIENCE AND ENGINEERING PROFESSIONALS
- 22 HEALTH PROFESSIONALS
  - 221 MEDICAL DOCTORS
    - 2211 Generalist Medical Practitioners
    - 2212 Specialist Medical Practitioners
  - 222 NURSING AND MIDWIFERY PROFESSIONALS
    - 2221 Nursing Professionals
    - 2222 Midwifery Professionals
  - 223 TRADITIONAL AND COMPLEMENTARY PROFESSIONALS
    - 2231 Traditional and Complementary Medicine Professionals
  - 224 PARAMEDICAL PRACTITIONERS
    - 2241 Paramedical Practitioners
  - 225 VETERINARIANS
    - 2251 Veterinarians
  - 226 OTHER HEALTH PROFESSIONALS
    - 2261 Dentists
    - 2262 Pharmacists
    - 2263 Environmental and Occupational Health and Hygiene Professionals
    - 2264 Physiotherapists
    - 2265 Dietitians and Nutritionists
    - 2266 Audiologists and Speech Therapists
    - 2267 Optometrists and Ophthalmic Opticians
    - 2268 Occupational Therapists
    - 2269 Health Professionals Not Elsewhere Classified
- 23 TEACHING PROFESSIONALS
- 24 BUSINESS AND ADMINISTRATION PROFESSIONALS
- 25 INFORMATION AND COMMUNICATIONS TECHNOLOGY PROFESSIONALS
- 26 LEGAL PROFESSIONALS
- 27 HOSPITALITY AND RELATED SERVICES PROFESSIONALS
- 28 SOCIAL AND CULTURAL PROFESSIONALS
- 29 REGULATORY GOVERNMENT PROFESSIONALS

## MAJOR GROUP 2 PROFESSIONALS



## MAJOR GROUP 2 PROFESSIONALS

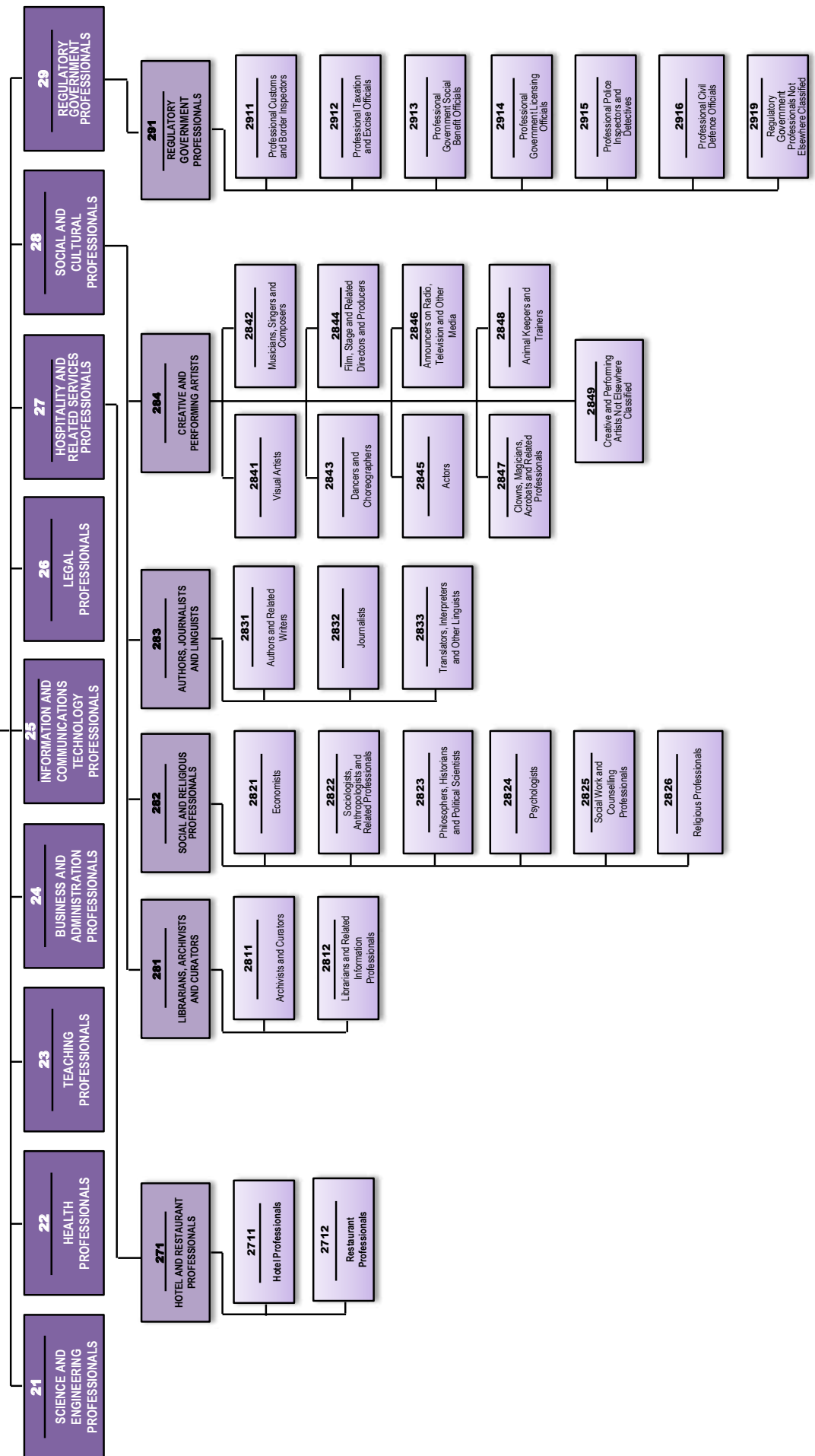




# MAJOR GROUP 2 PROFESSIONALS

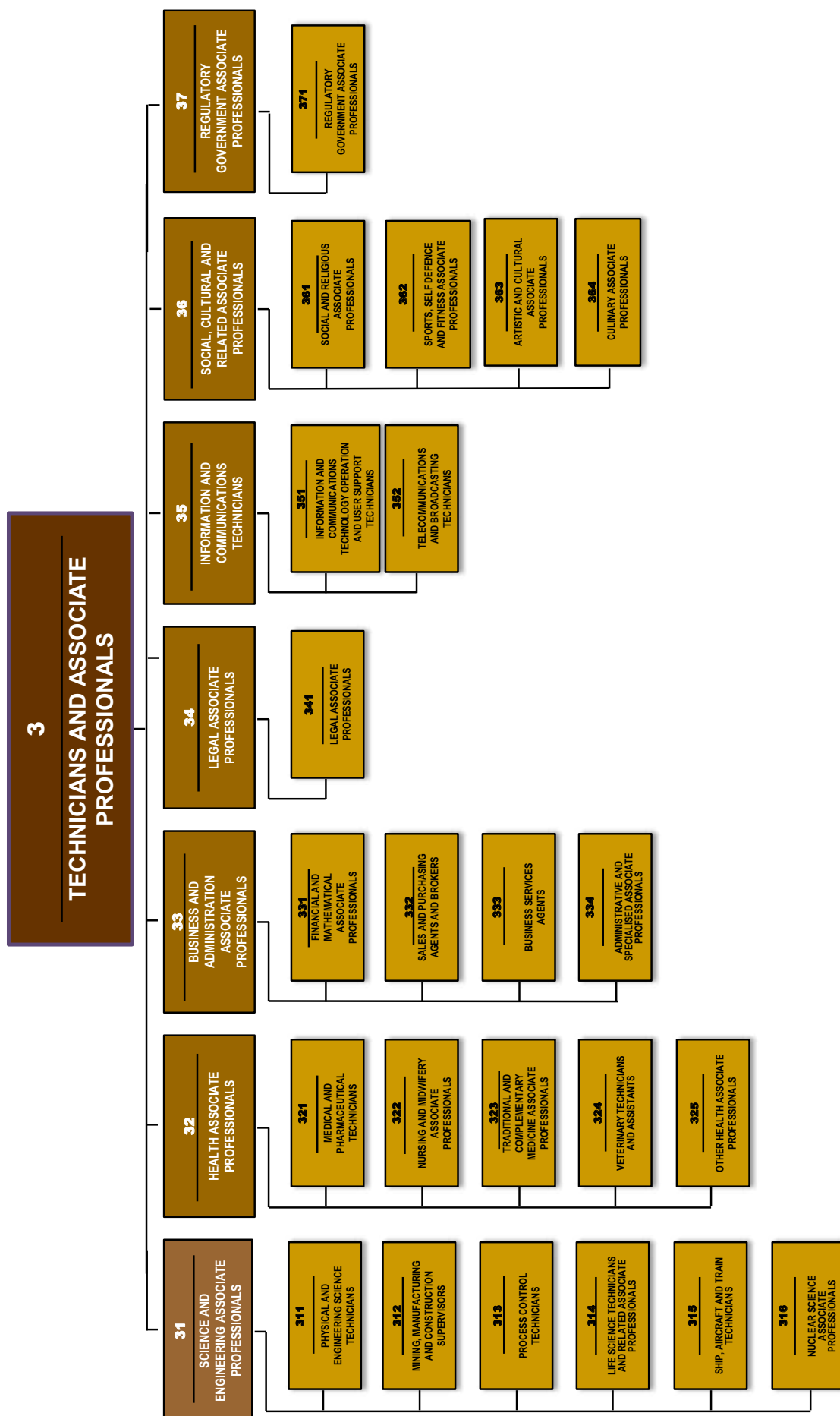
2

## PROFESSIONALS

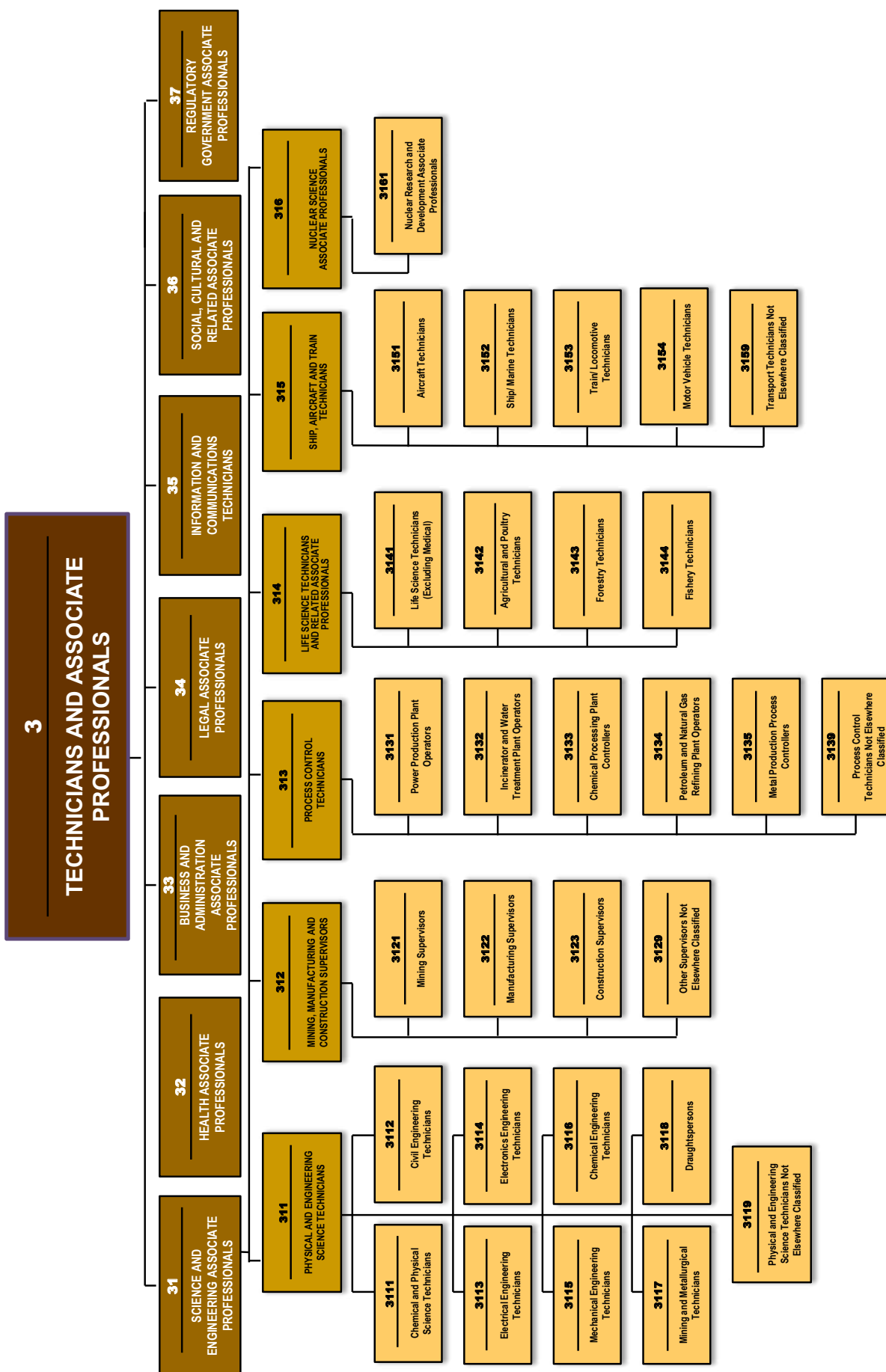


# MAJOR GROUP 3

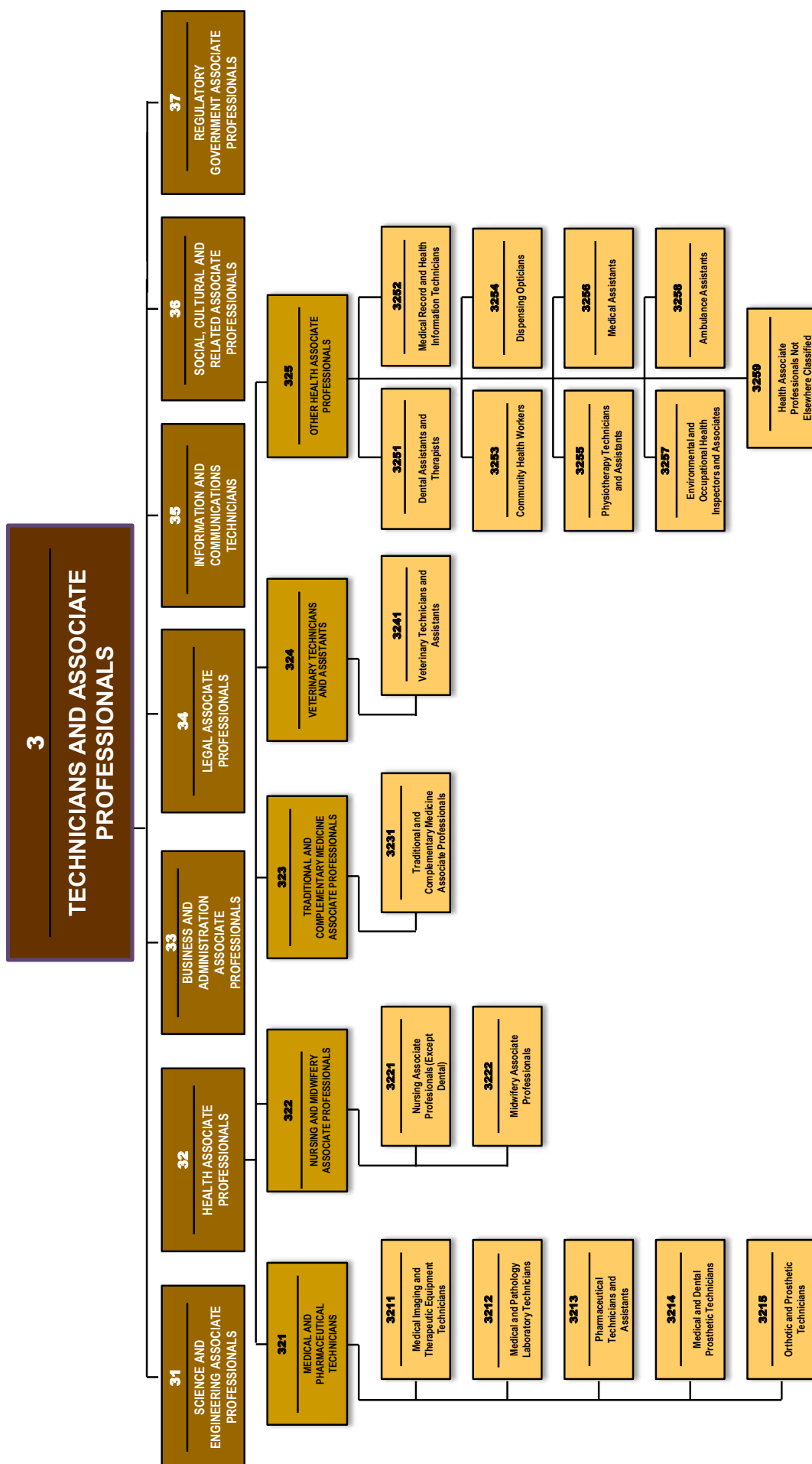
## TECHNICIANS AND ASSOCIATE PROFESSIONALS



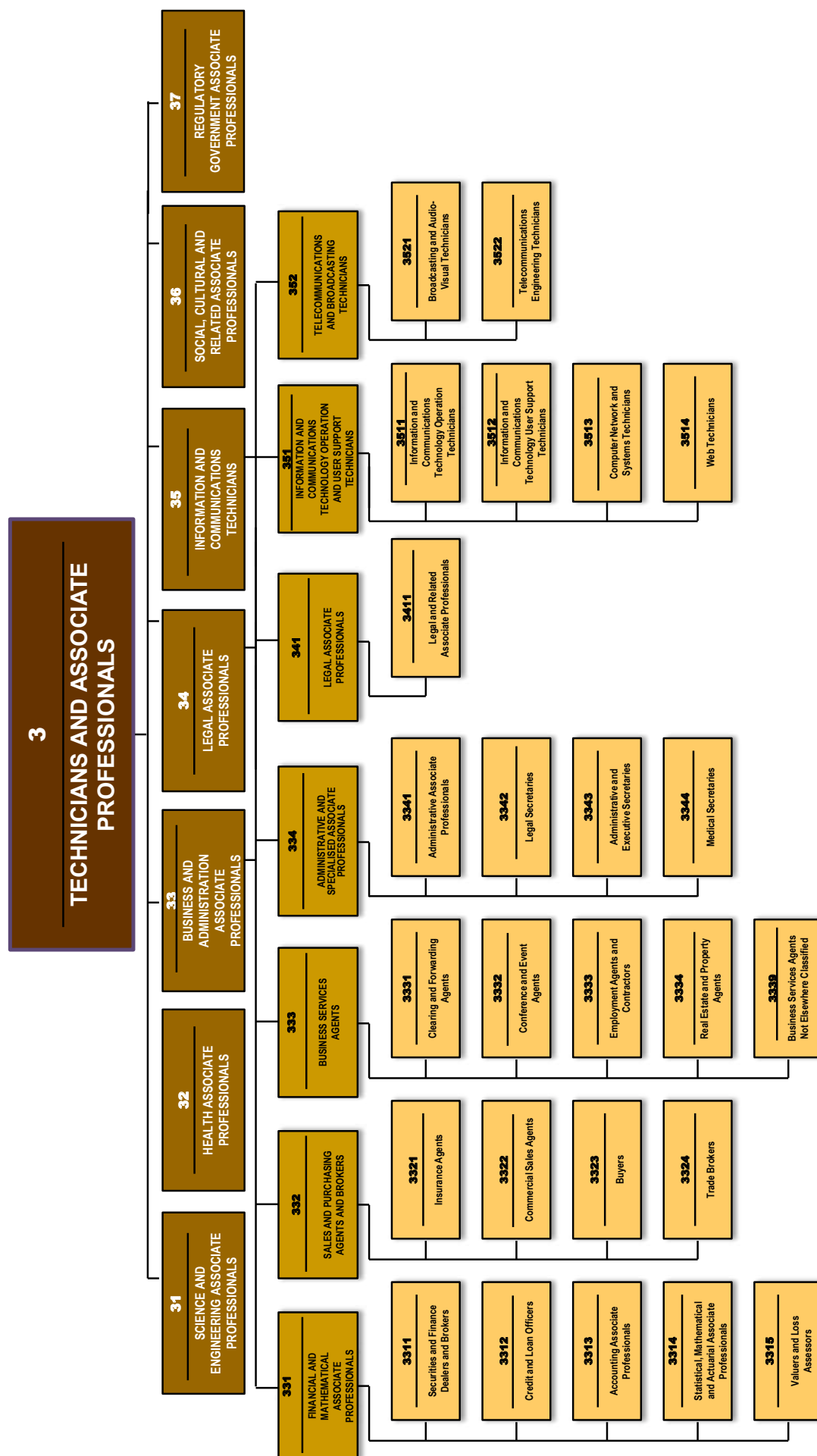
# MAJOR GROUP 3 TECHNICIANS AND ASSOCIATE PROFESSIONALS



# MAJOR GROUP 3 TECHNICIANS AND ASSOCIATE PROFESSIONALS

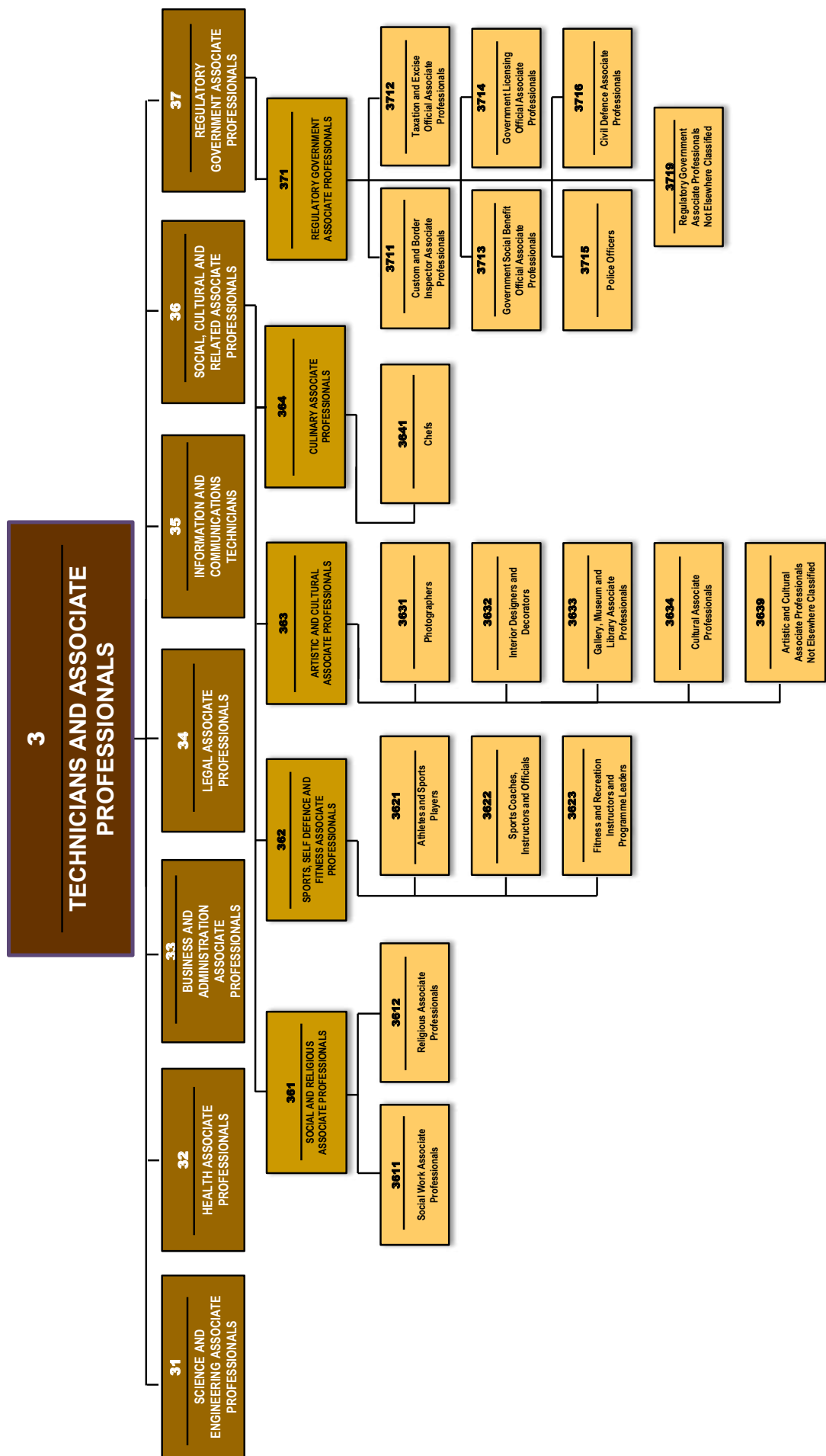


# MAJOR GROUP 3 TECHNICIANS AND ASSOCIATE PROFESSIONALS

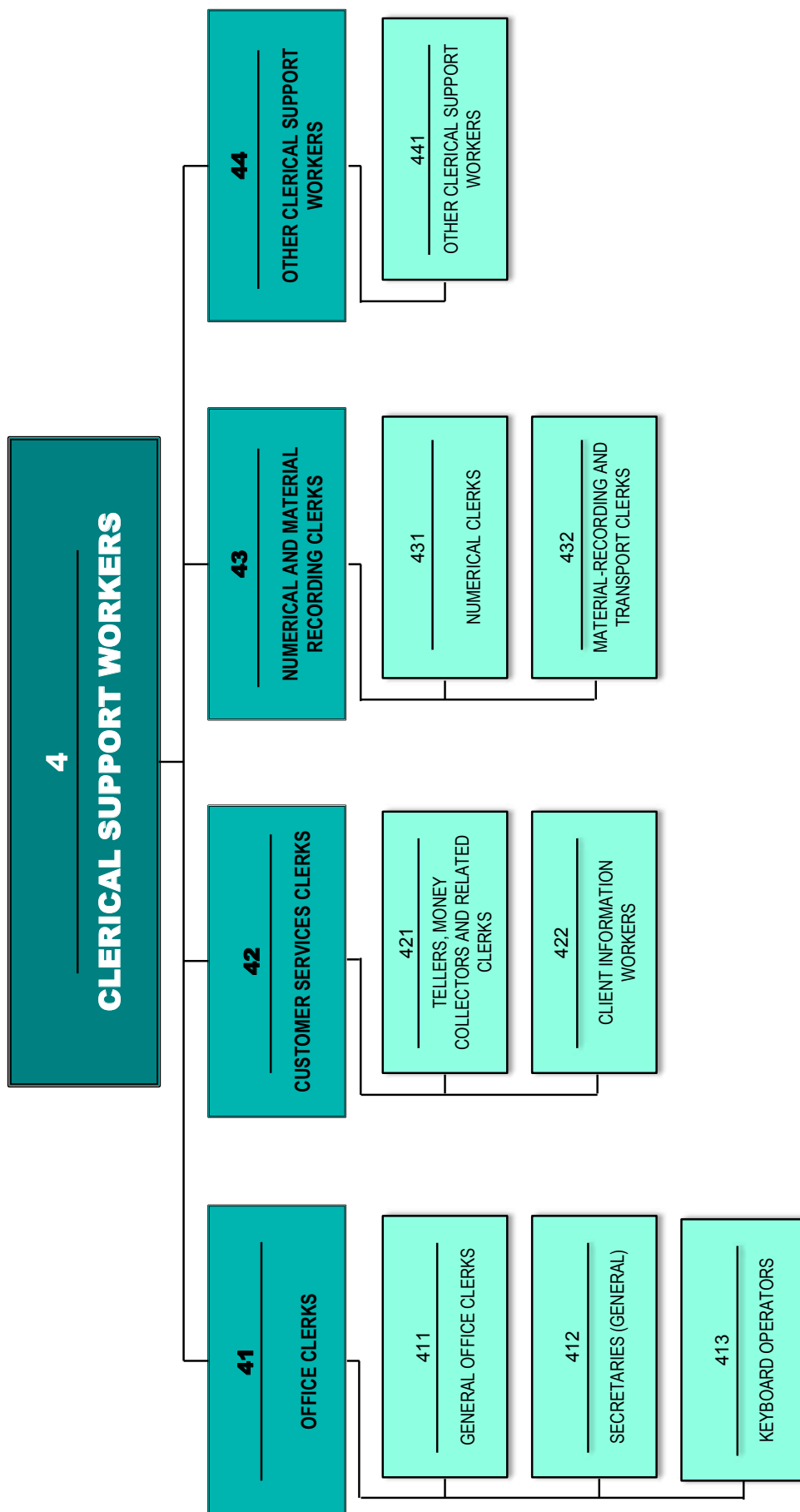


# MAJOR GROUP 3

## TECHNICIANS AND ASSOCIATE PROFESSIONALS

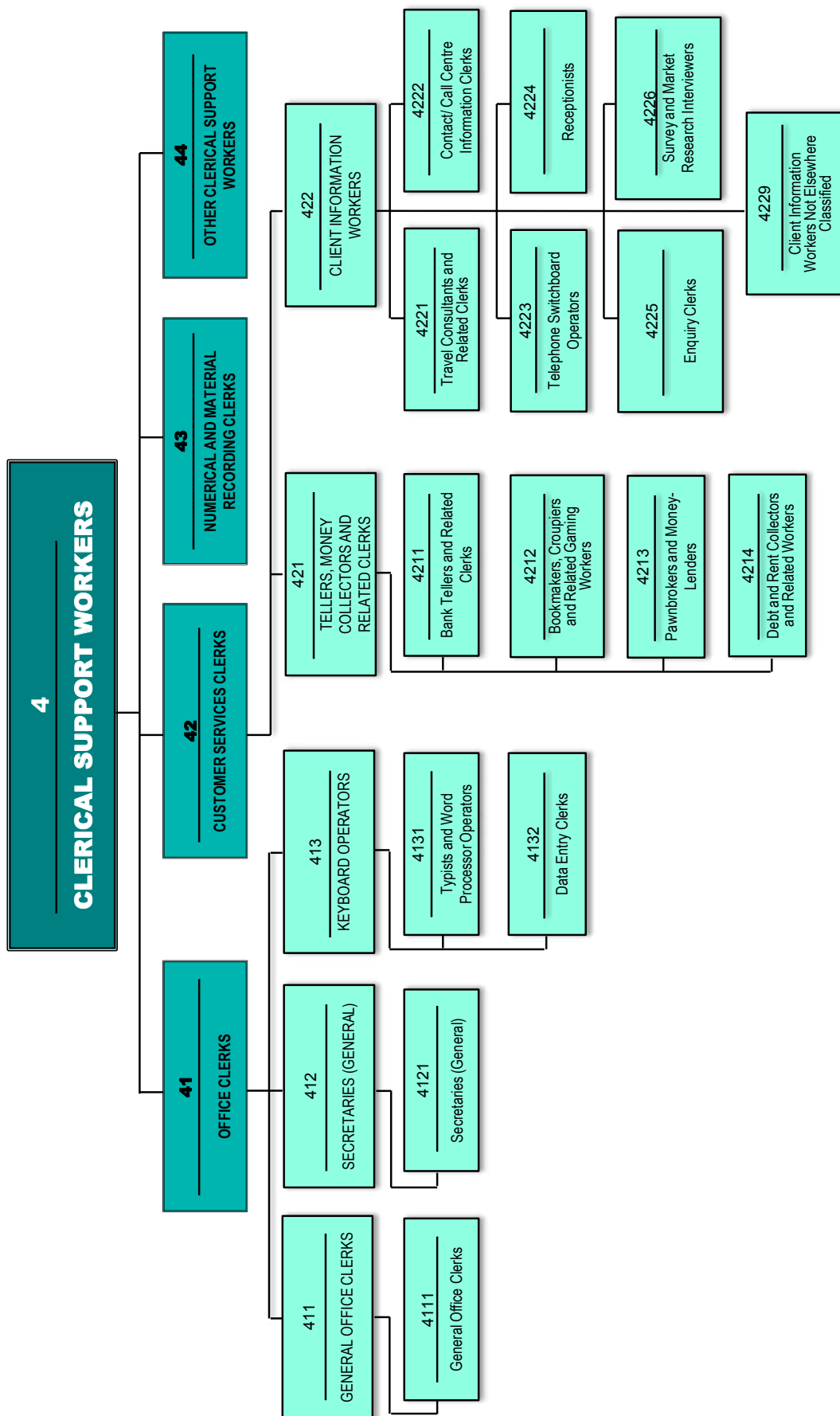


MAJOR GROUP 4  
CLERICAL SUPPORT WORKERS

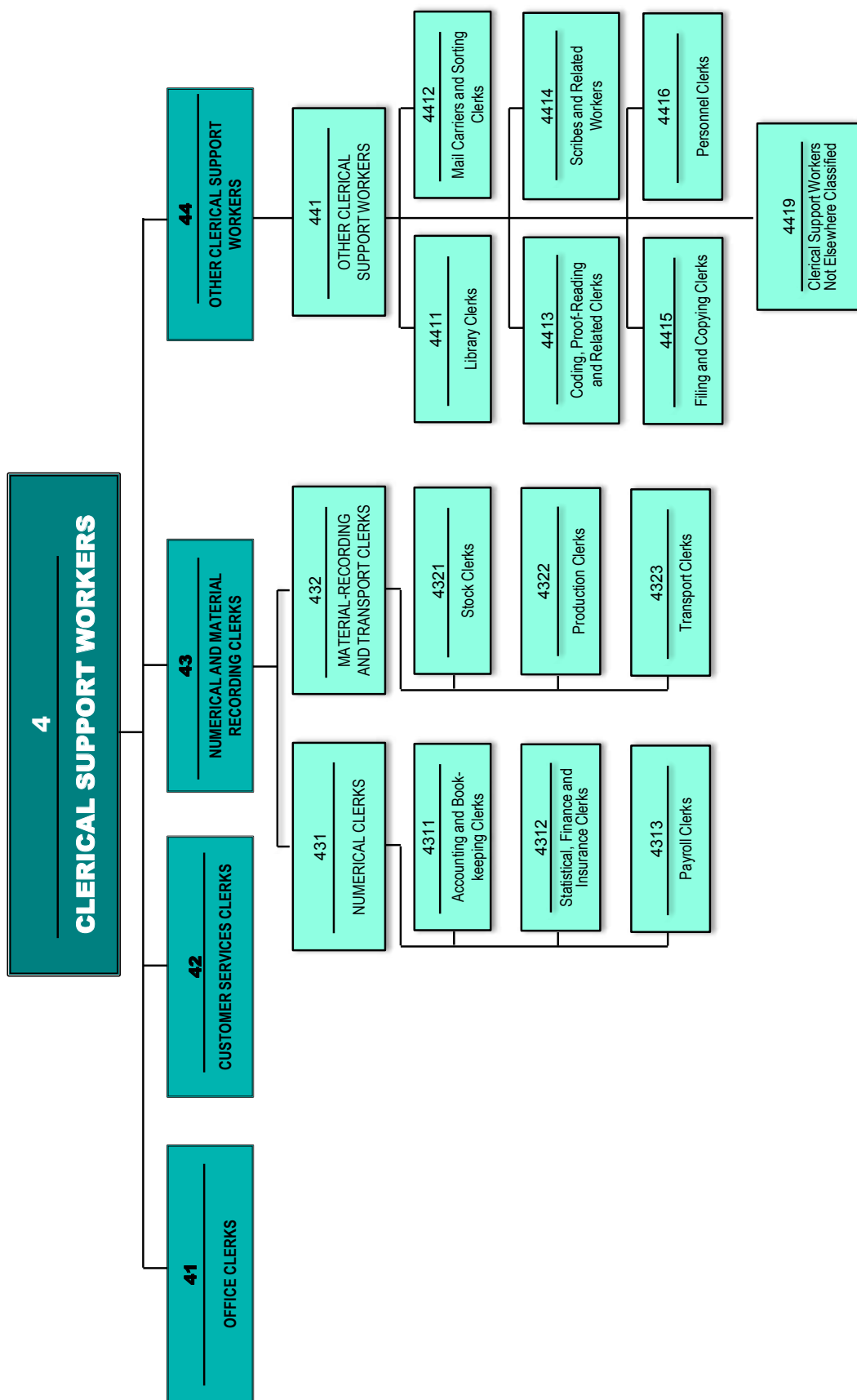




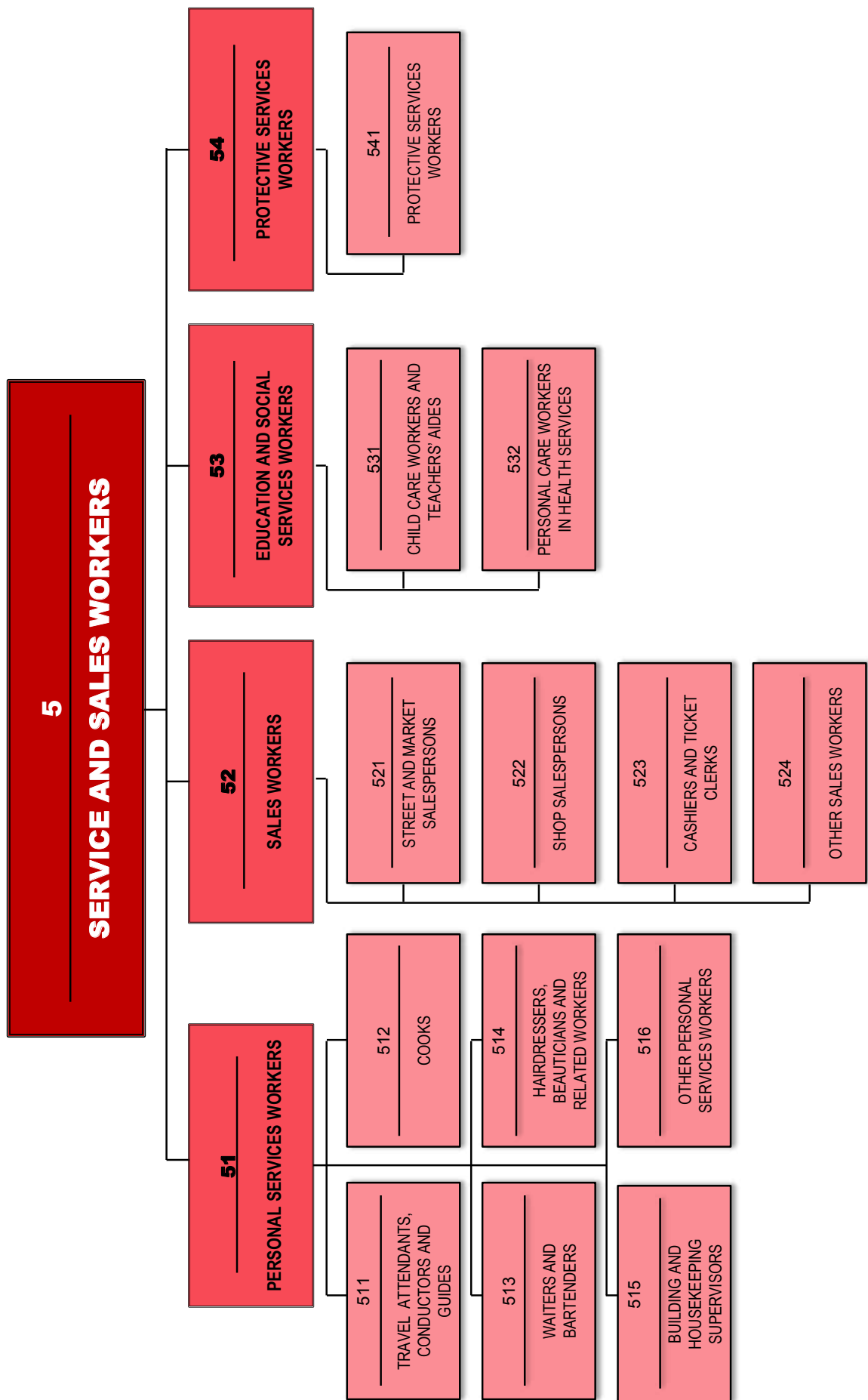
## MAJOR GROUP 4 CLERICAL SUPPORT WORKERS



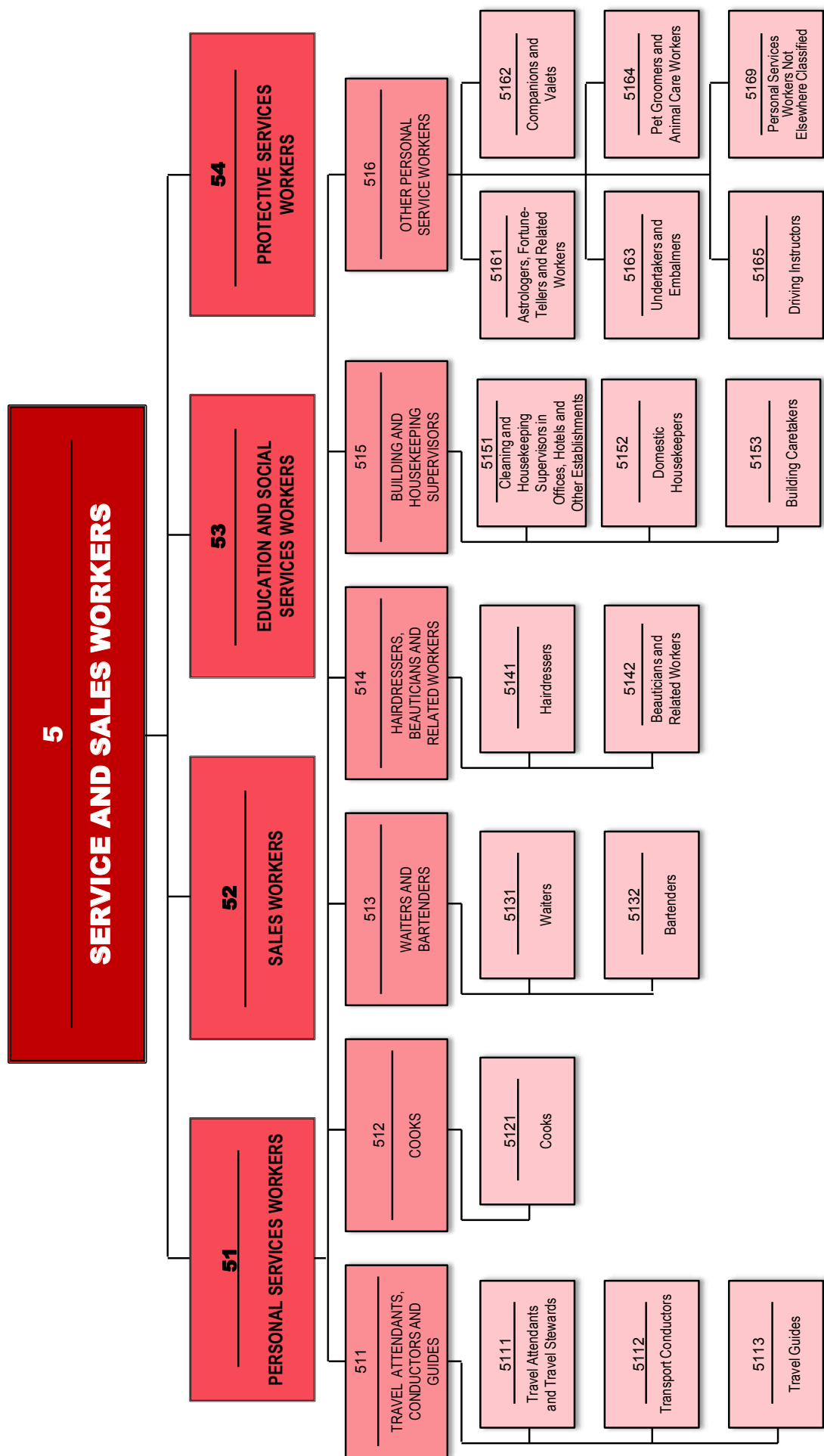
# MAJOR GROUP 4 CLERICAL SUPPORT WORKERS



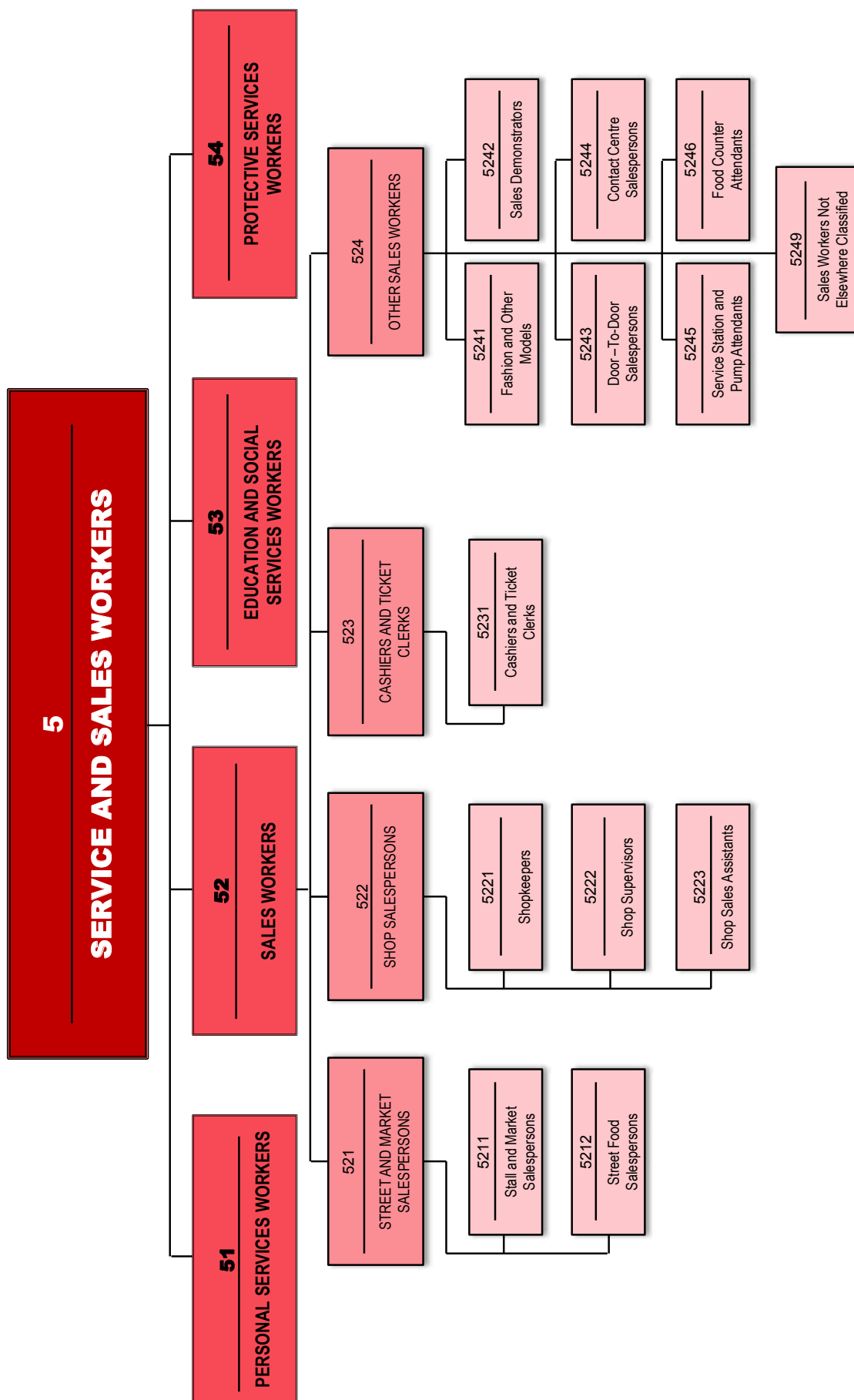
## MAJOR GROUP 5 SERVICE AND SALES WORKERS



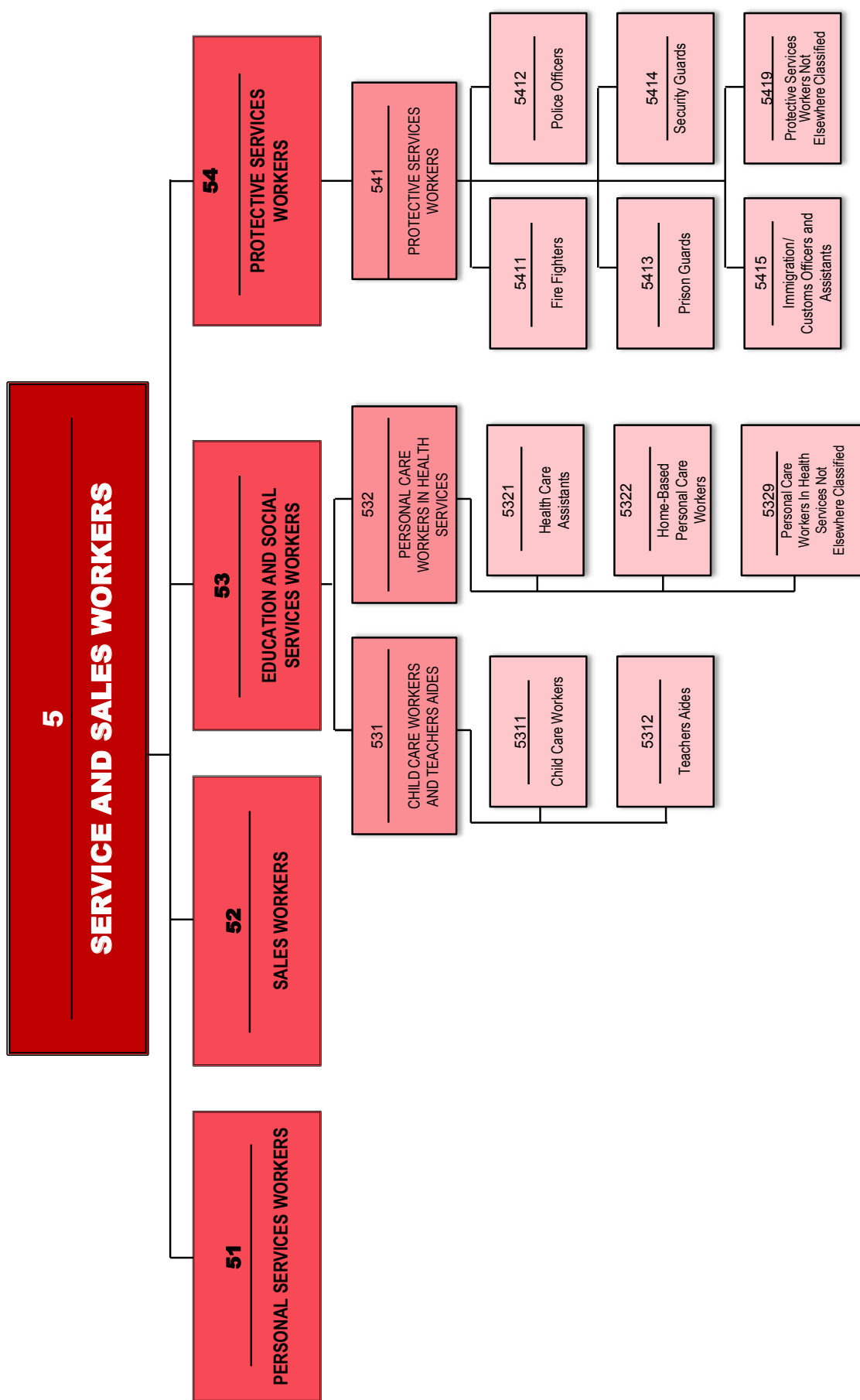
## MAJOR GROUP 5 SERVICE AND SALES WORKERS



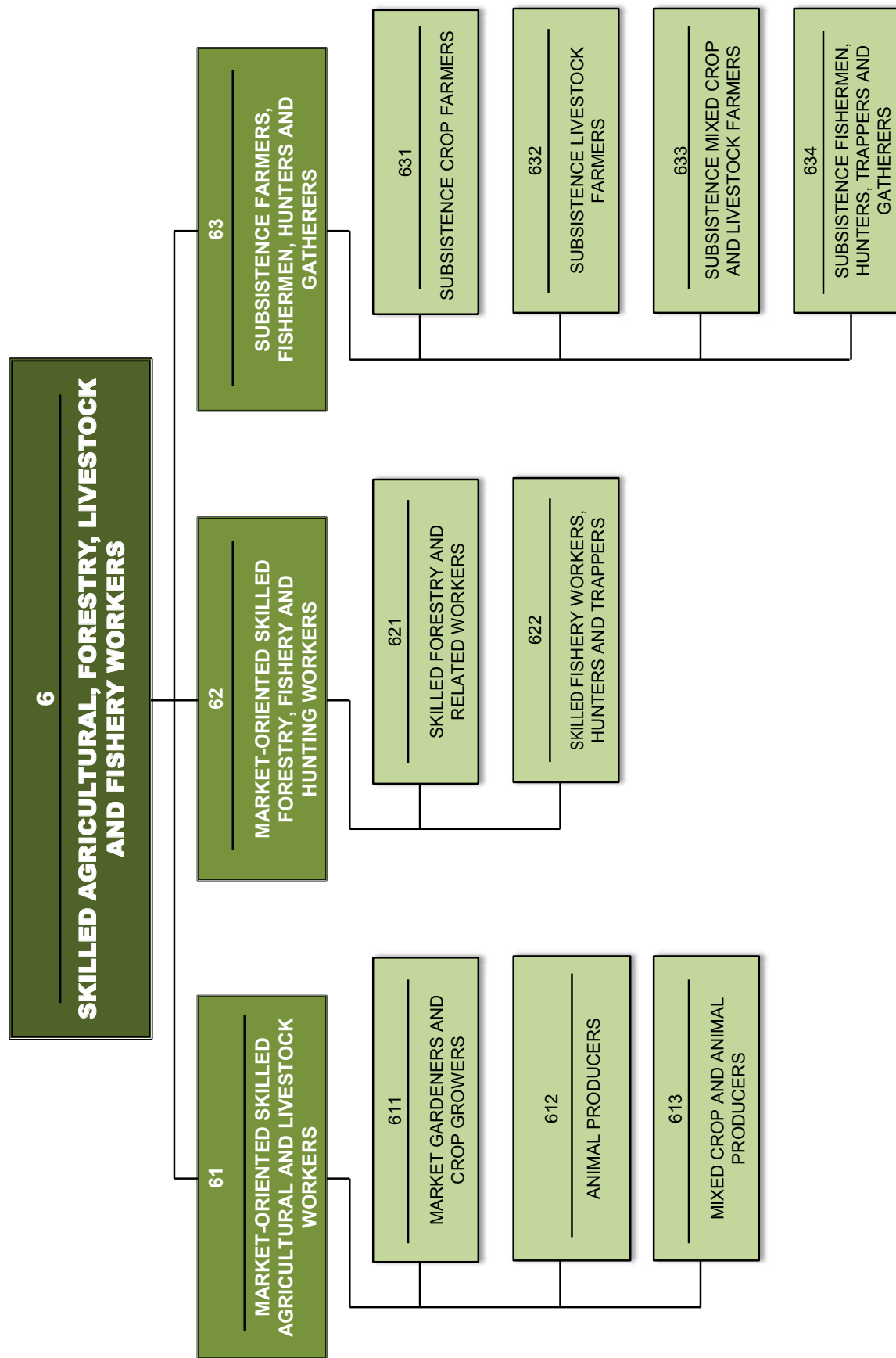
## MAJOR GROUP 5 SERVICE AND SALES WORKERS



# MAJOR GROUP 5 SERVICE AND SALES WORKERS

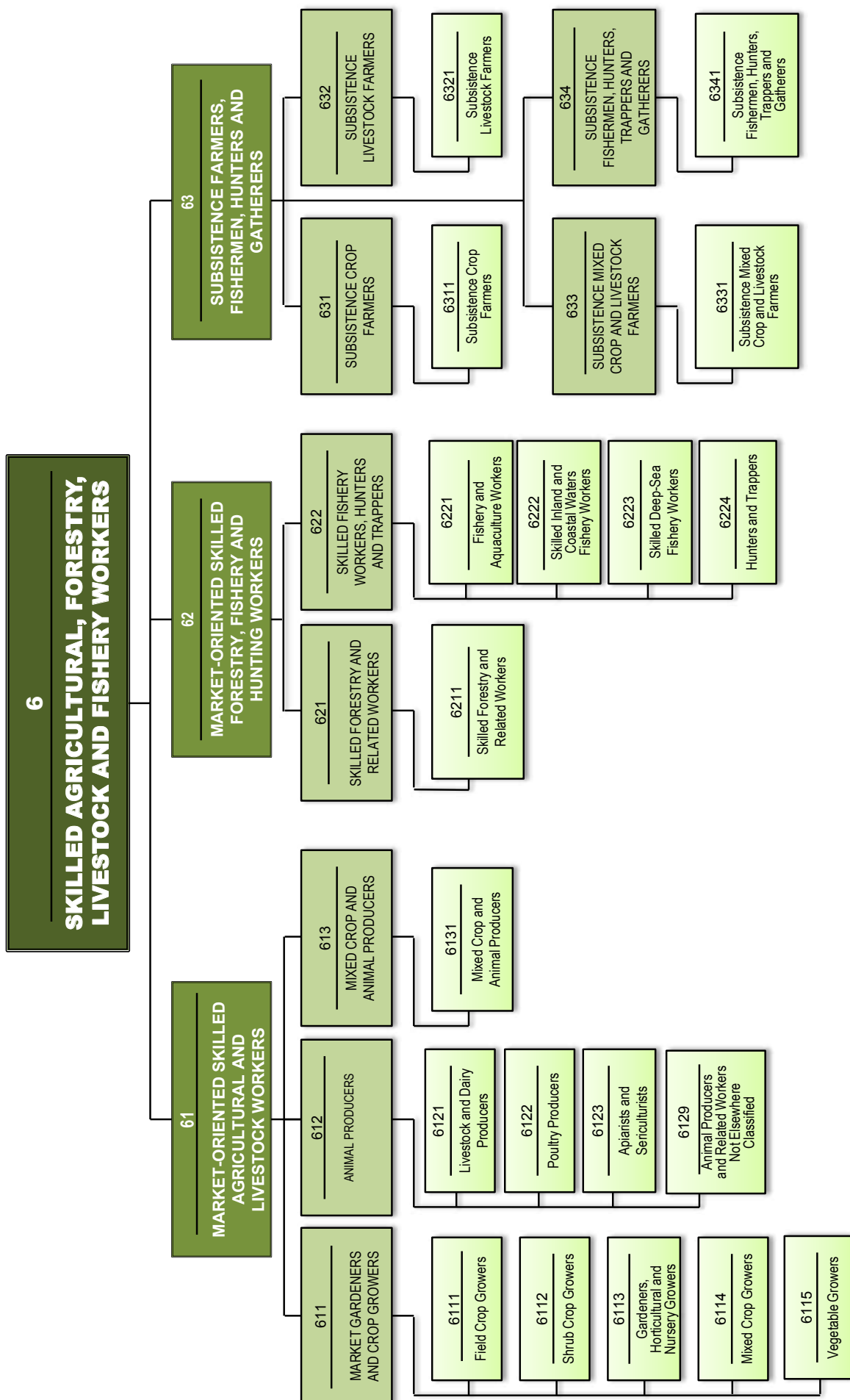


# MAJOR GROUP 6 SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS



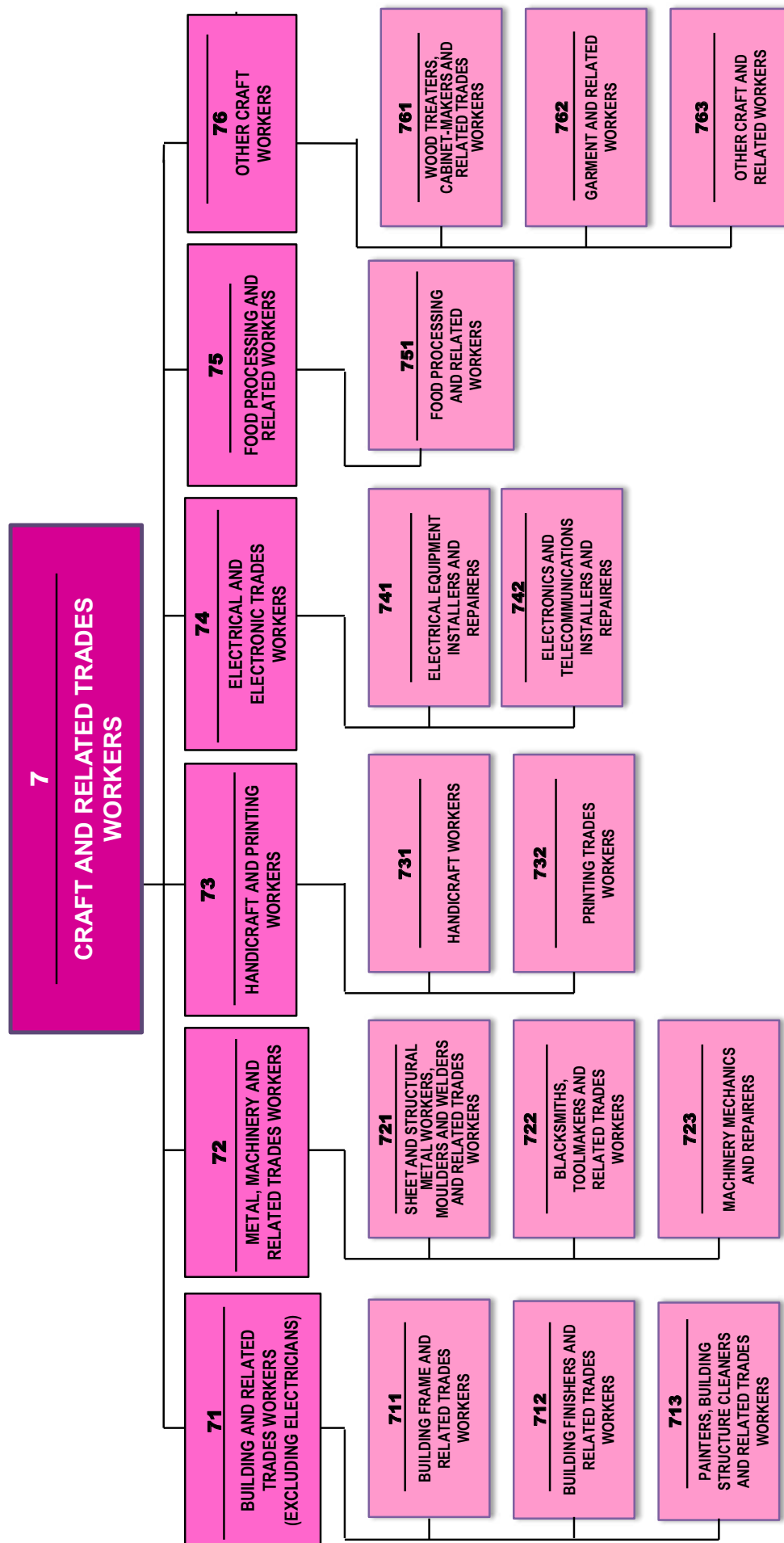


# MAJOR GROUP 6 SKILLED AGRICULTURAL, FORESTRY, LIVESTOCK AND FISHERY WORKERS

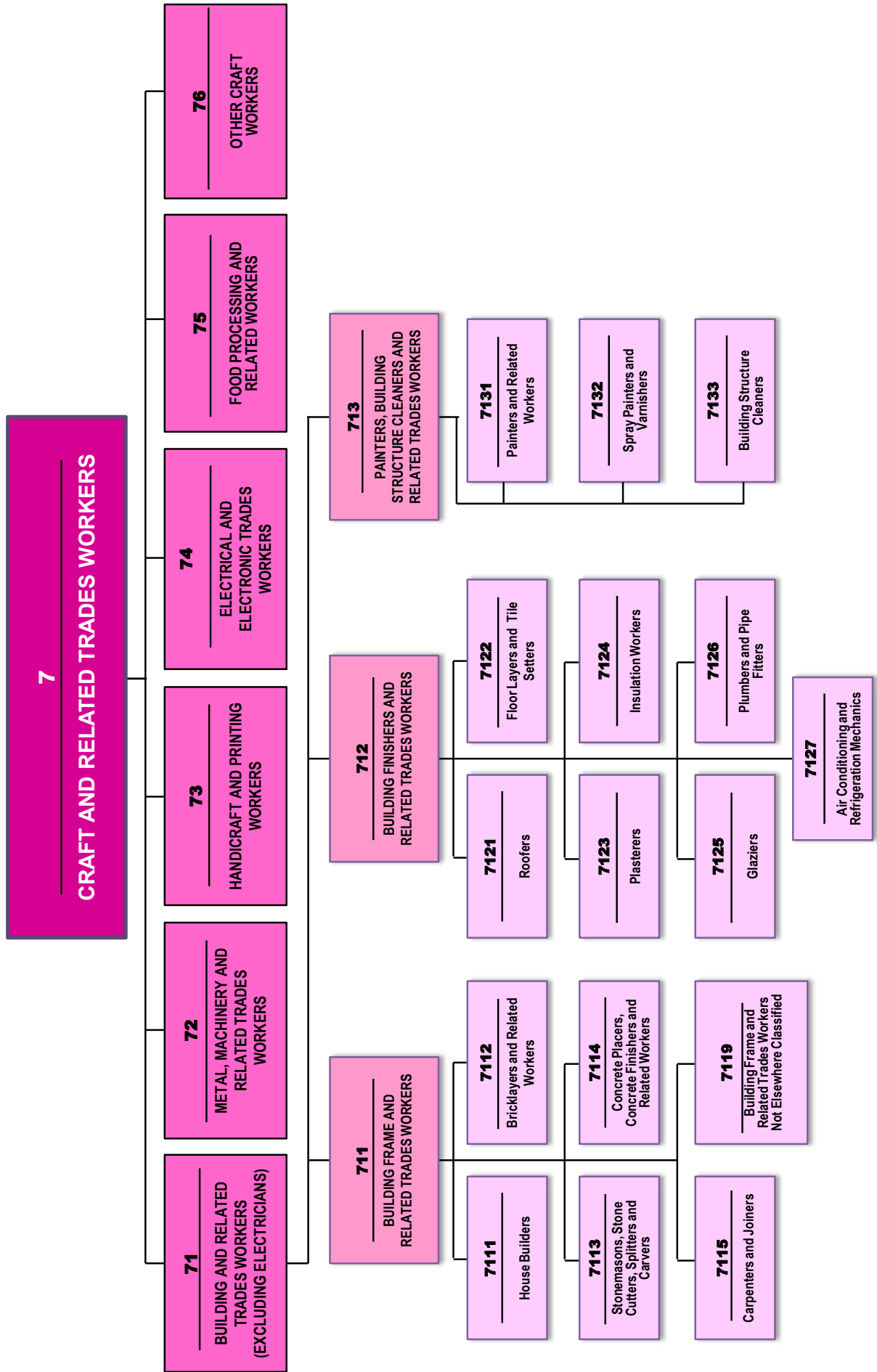


# MAJOR GROUP 7

## CRAFT AND RELATED TRADES WORKERS

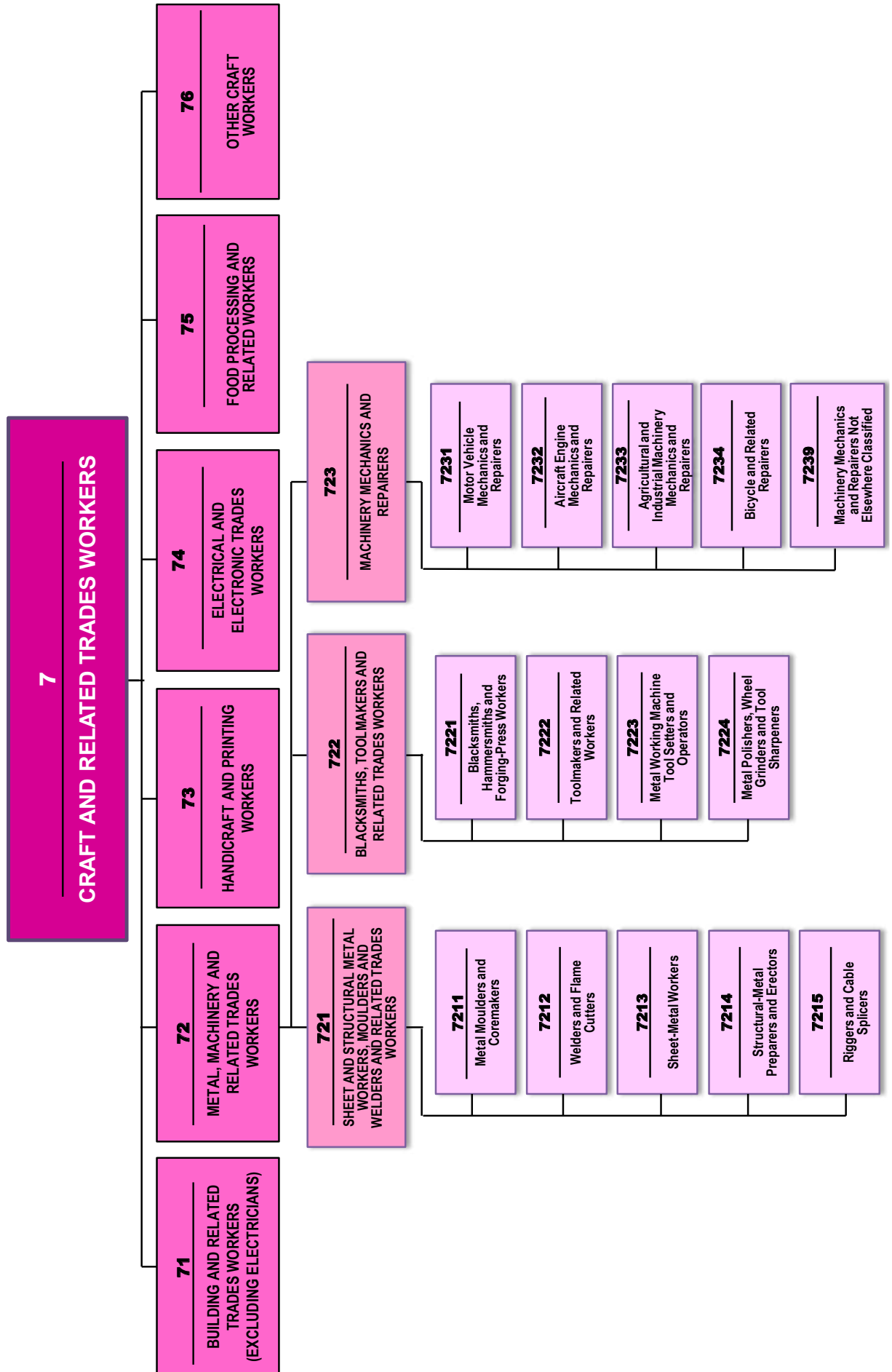


# MAJOR GROUP 7 CRAFT AND RELATED TRADES WORKERS

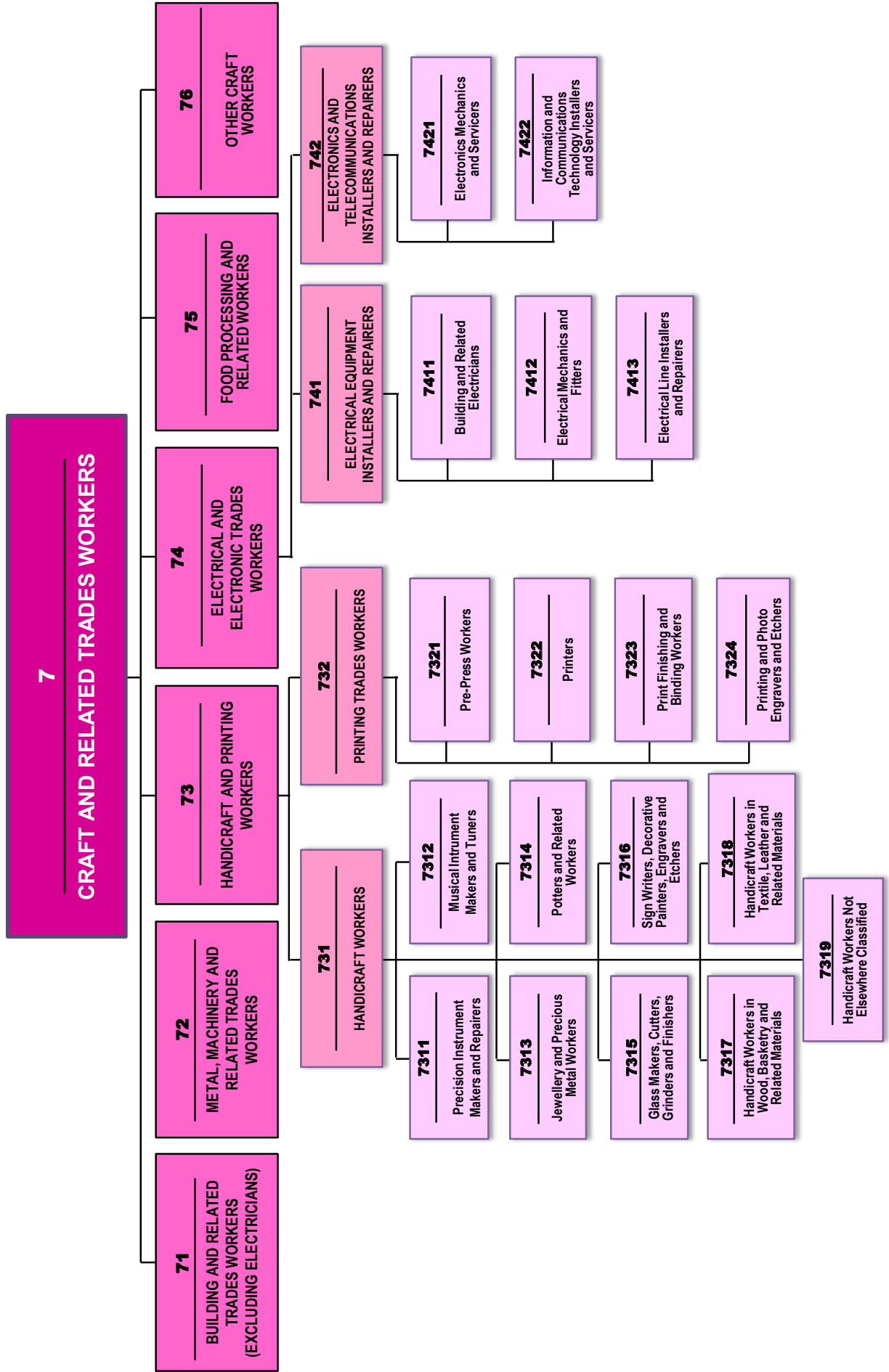


# MAJOR GROUP 7

## CRAFT AND RELATED TRADES WORKERS

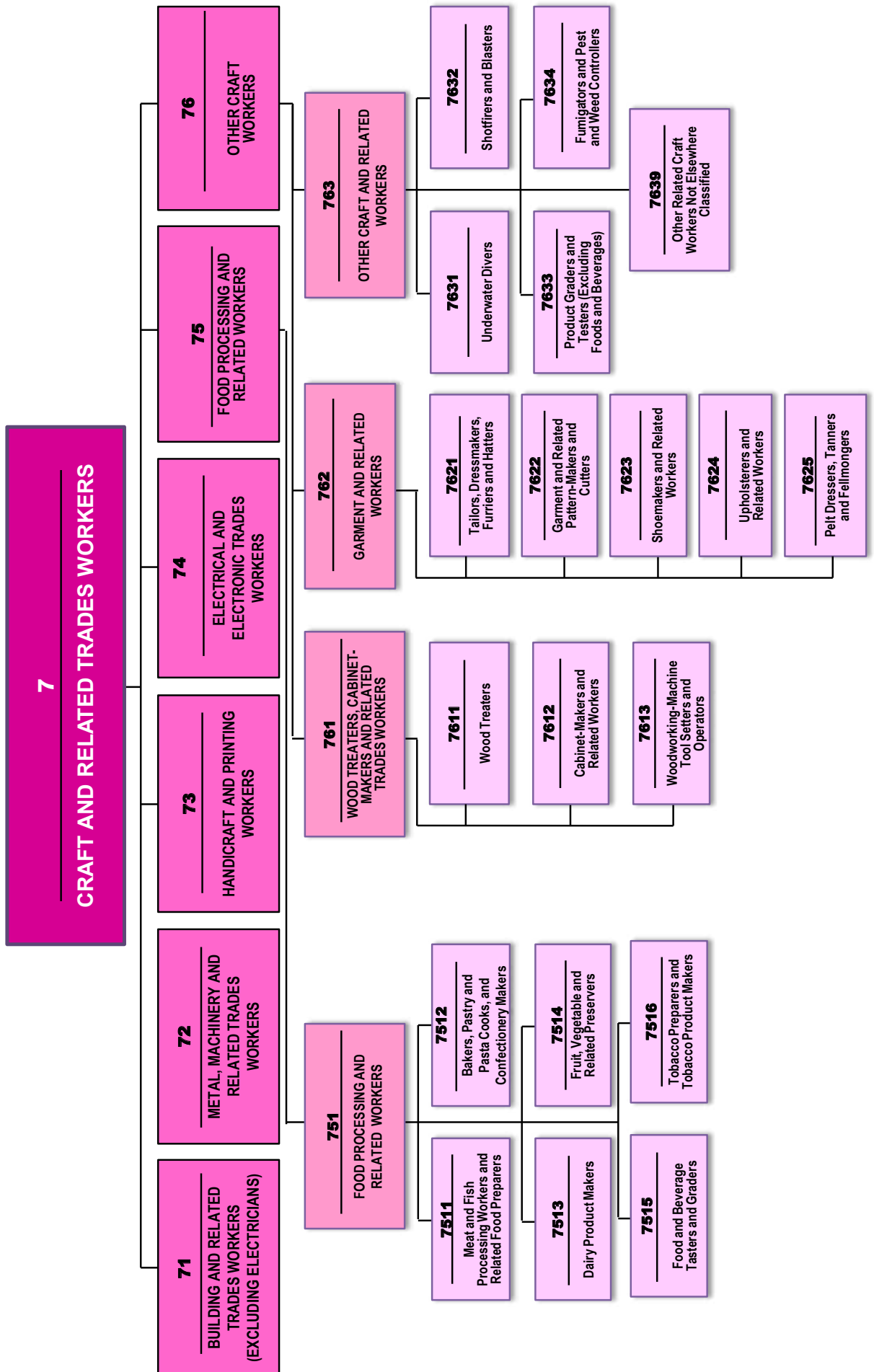


# MAJOR GROUP 7 CRAFT AND RELATED TRADES WORKERS



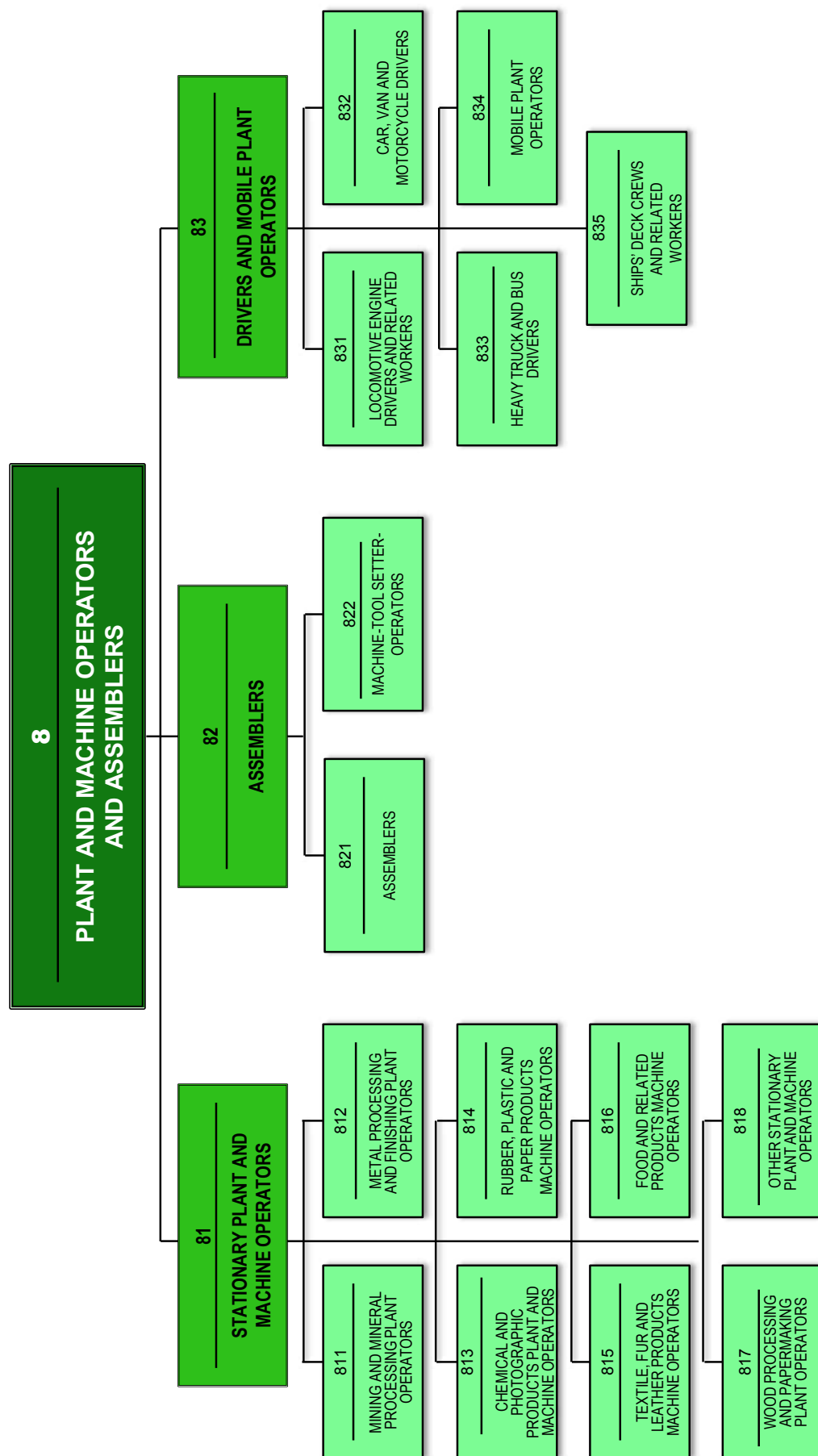
# MAJOR GROUP 7

## CRAFT AND RELATED TRADES WORKERS



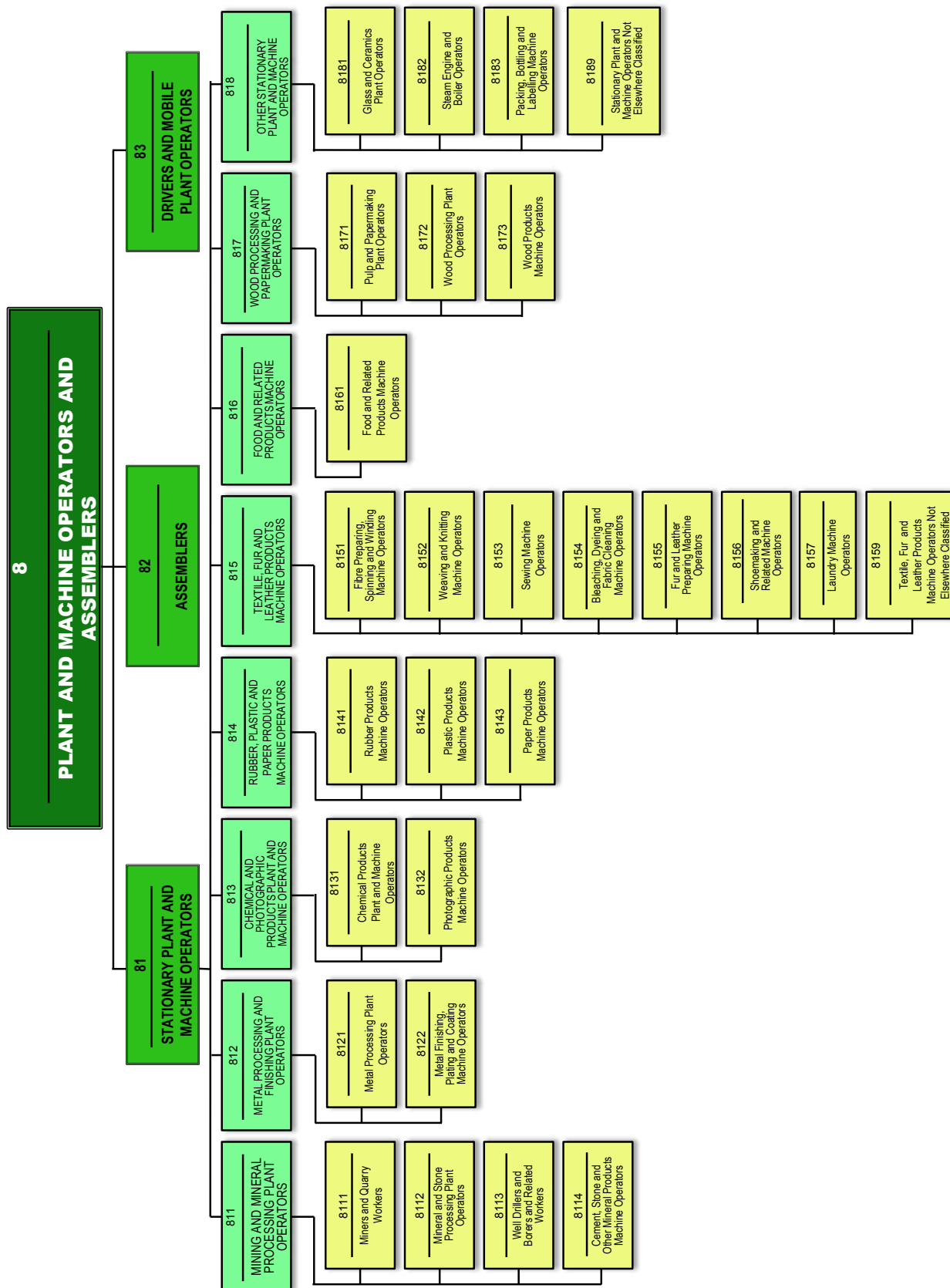
# MAJOR GROUP 8

## PLANT AND MACHINE OPERATORS AND ASSEMBLERS

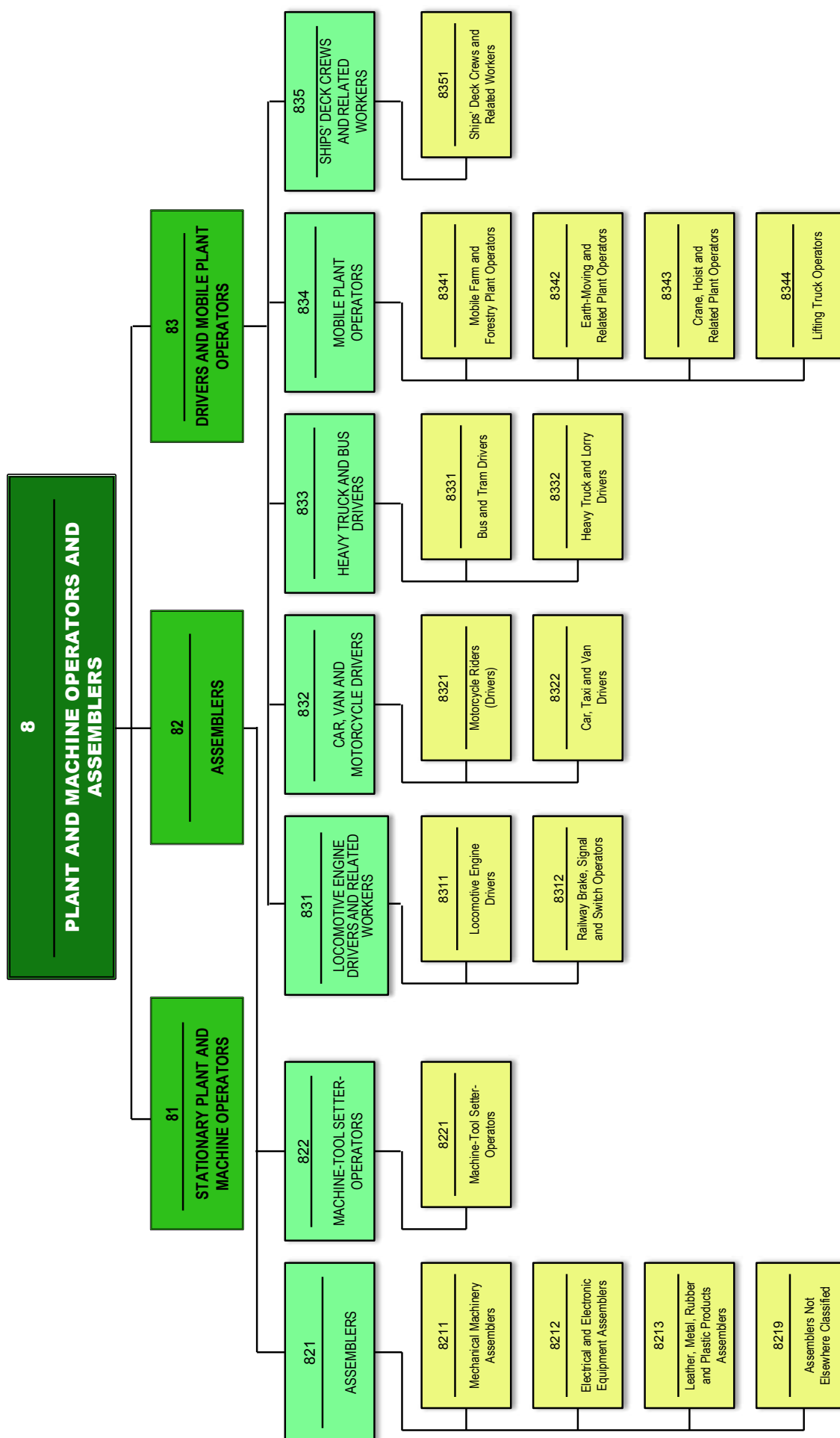




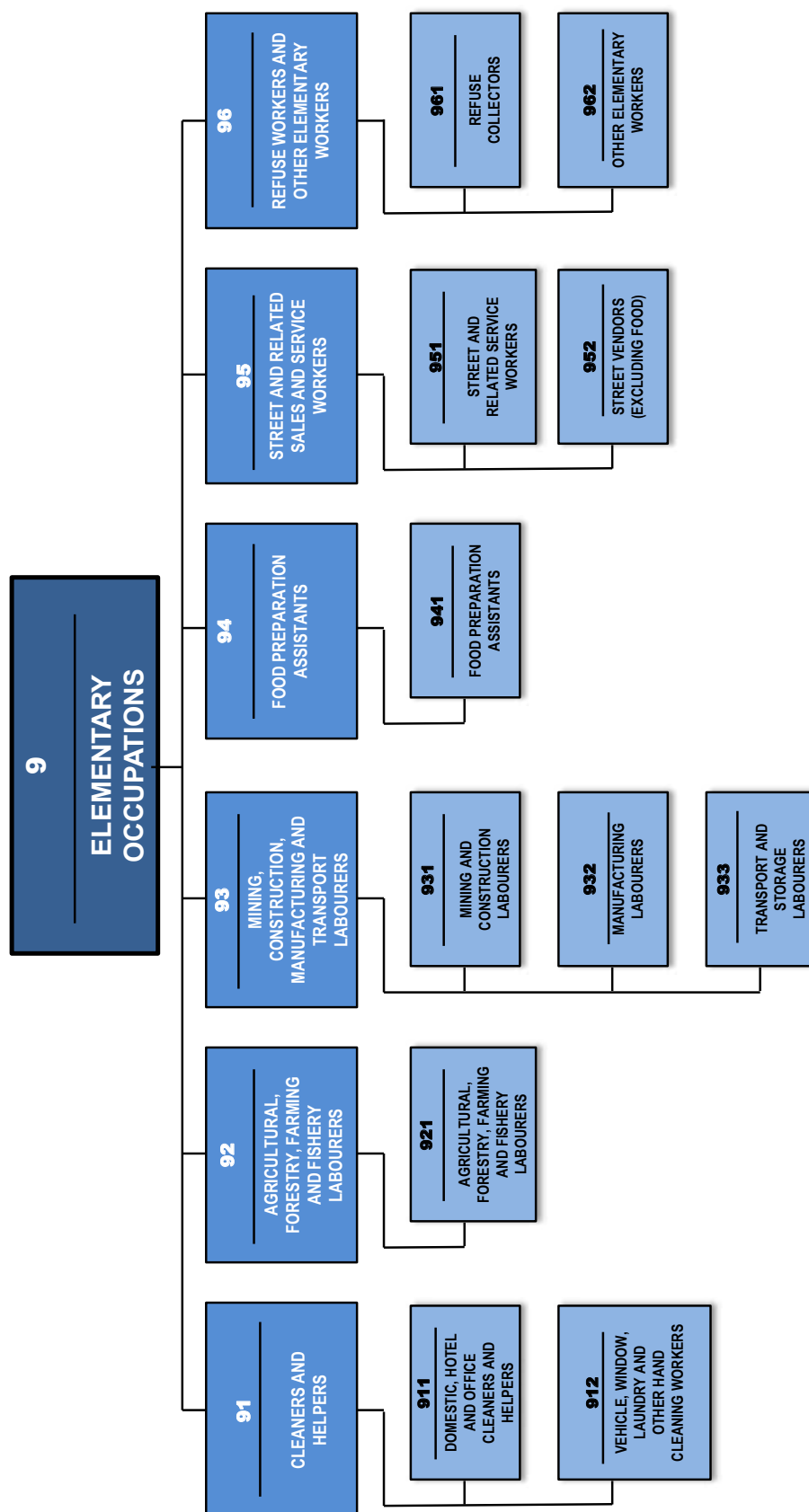
# MAJOR GROUP 8 PLANT AND MACHINE OPERATORS AND ASSEMBLERS



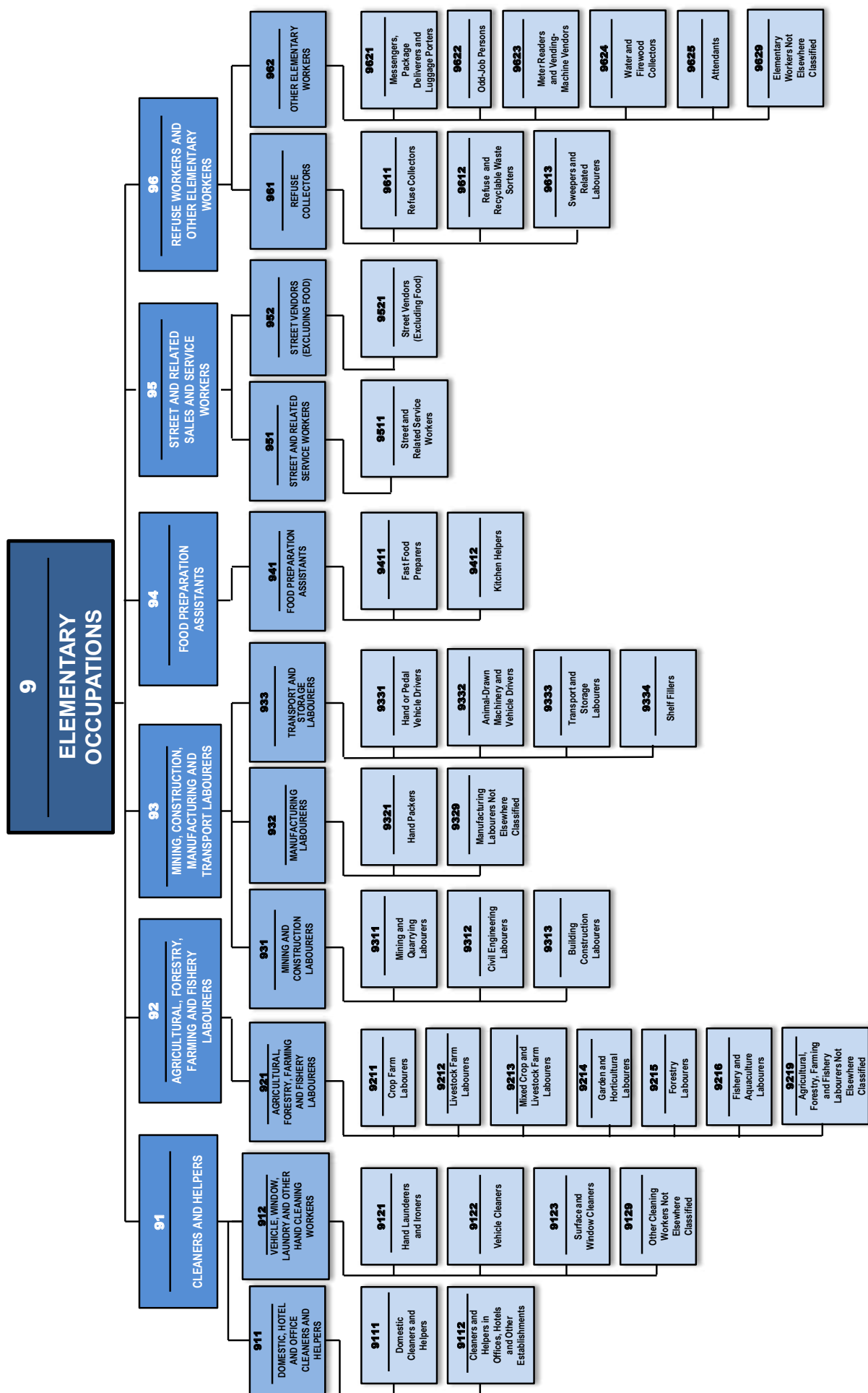
# MAJOR GROUP 8 PLANT AND MACHINE OPERATORS AND ASSEMBLERS



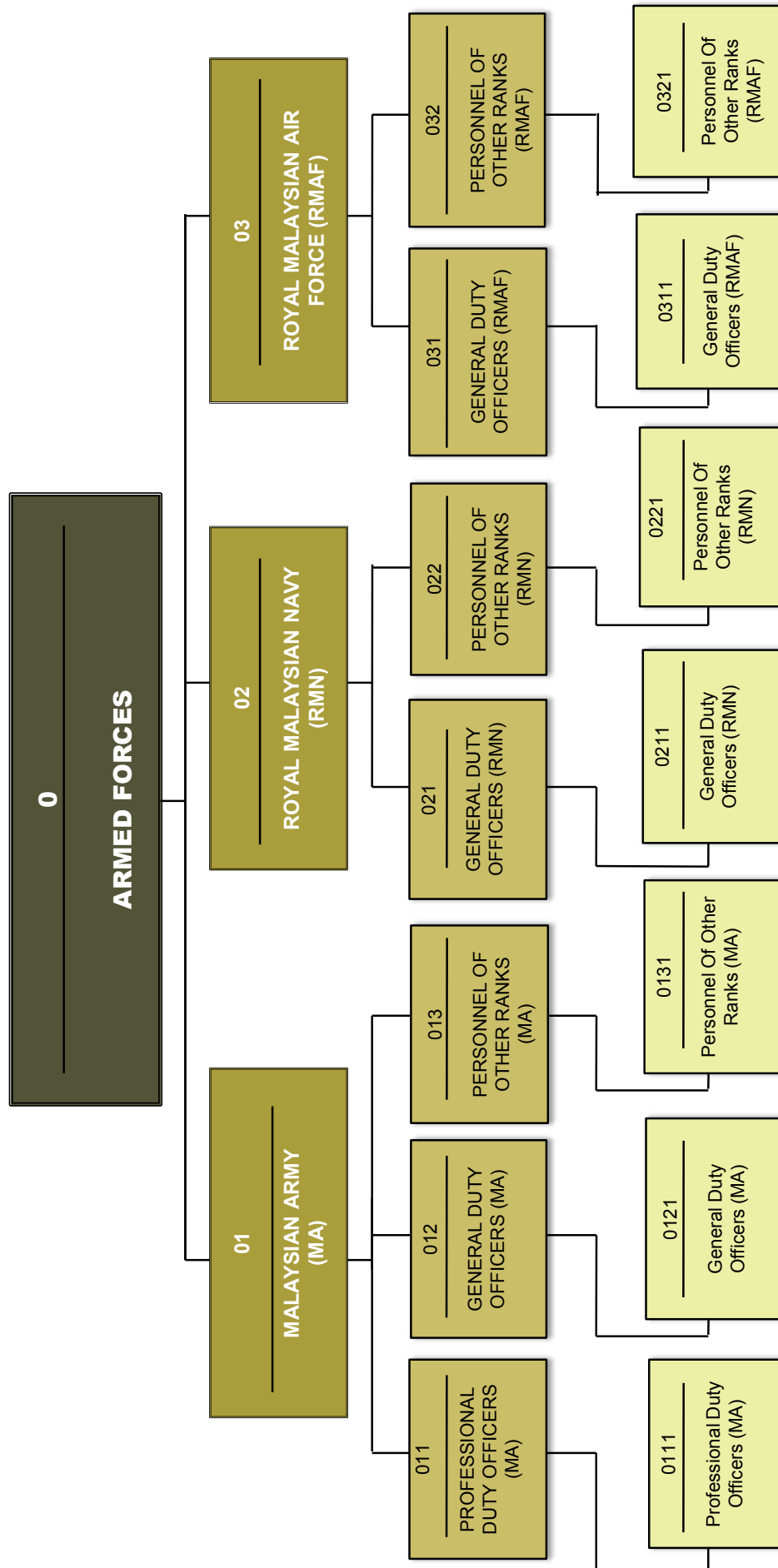
## MAJOR GROUP 9 ELEMENTARY OCCUPATIONS



# MAJOR GROUP 9 ELEMENTARY OCCUPATIONS



# MAJOR GROUP 0 ARMED FORCES





The background is an abstract composition of vibrant, flowing lines in shades of orange, red, and yellow, creating a sense of dynamic movement and energy. A faint, stylized globe is visible in the upper right corner, partially obscured by the flowing lines. The overall effect is one of warmth and forward momentum.

# **INTERESTS AND CAREERS**



# INTERESTS AND CAREERS

TYPE OF INTEREST	PERSONALITY	EXAMPLES OF OCCUPATION
<b>CREATIVE ARTS</b>	<ul style="list-style-type: none"> <li>• Likes to design and create functional or artistic products</li> <li>• Has the talent for and is able to appreciate art, literature, music, architecture and other art forms</li> </ul>	<ul style="list-style-type: none"> <li>• Fashion Designer</li> <li>• Advertising Executive</li> <li>• Graphic Artist</li> <li>• Musician</li> <li>• Draughtsperson</li> <li>• Film Director</li> <li>• Interior Designer</li> <li>• Chef</li> </ul>
<b>TECHNICAL ENGINEERING</b>	<ul style="list-style-type: none"> <li>• Likes to design and build or use machines, tools and technical equipment</li> <li>• Has affinity for mechanical things</li> </ul>	<ul style="list-style-type: none"> <li>• Architect</li> <li>• Electrician</li> <li>• Welder</li> <li>• Technician</li> <li>• Engineer</li> <li>• Engineering Assistant</li> <li>• Tool and Die Maker</li> <li>• General Machinist</li> <li>• Craft Instructor</li> </ul>
<b>FIELD WORK</b>	<ul style="list-style-type: none"> <li>• Likes to work in the field and moving from place to place</li> <li>• Enjoys physical freedom and appreciates nature</li> </ul>	<ul style="list-style-type: none"> <li>• Archaeologist</li> <li>• Health Inspector</li> <li>• Land Surveyor</li> <li>• Photographer</li> <li>• Salesperson</li> <li>• Engineer</li> <li>• Pilot</li> <li>• Police Officer</li> <li>• Forest Ranger</li> </ul>
<b>MANUAL/ PRACTICAL WORK</b>	<ul style="list-style-type: none"> <li>• Likes to work with the hands and using tools to make or repair things</li> <li>• Likes practical work</li> </ul>	<ul style="list-style-type: none"> <li>• Electrician</li> <li>• Fitter</li> <li>• Mechanic</li> <li>• Machinery Installer</li> <li>• Tool and Die Maker</li> <li>• Draughtsperson</li> <li>• Furniture Maker</li> <li>• Stone Carver</li> <li>• Hand Embroiderer</li> <li>• Foundry Worker</li> </ul>

TYPE OF INTEREST	PERSONALITY	EXAMPLES OF OCCUPATION
<b>LITERATURE</b>	<ul style="list-style-type: none"> <li>• Likes to read, write and manage and appreciate literary works and ideas</li> </ul>	<ul style="list-style-type: none"> <li>• Musician</li> <li>• Editor</li> <li>• Advertising Executive</li> <li>• Literature Teacher</li> <li>• Actor</li> <li>• Proof-reader</li> <li>• Publisher</li> <li>• Director</li> <li>• Script Writer</li> <li>• Journalist</li> </ul>
<b>PUBLIC RELATIONS</b>	<ul style="list-style-type: none"> <li>• Likes to meet people, converse, discuss and sometimes deal with and influence people</li> <li>• Is able to understand other people's problems and points of view</li> </ul>	<ul style="list-style-type: none"> <li>• Salesperson</li> <li>• Press Officer</li> <li>• Public Relations Officer</li> <li>• Industrial Relations Officer</li> <li>• Personnel Officer</li> <li>• Lawyer</li> <li>• Research Interviewer</li> <li>• Tourist Guide</li> <li>• Journalist</li> </ul>
<b>CLERICAL/ ADMINISTRATION</b>	<ul style="list-style-type: none"> <li>• Likes to write letters, organise and record information as well as plan business activities</li> <li>• Uses devices such as calculators, typewriters and computers</li> <li>• Most clerical/administrative positions involve meeting people</li> </ul>	<ul style="list-style-type: none"> <li>• Accountant</li> <li>• Typist</li> <li>• Clerk</li> <li>• Computer Operator</li> <li>• Bank Officer</li> <li>• Administrative Officer</li> <li>• Lawyer</li> <li>• Librarian</li> <li>• Secretary</li> </ul>
<b>COMMUNITY SERVICE</b>	<ul style="list-style-type: none"> <li>• Is concerned about the welfare and well-being of people and feels compassion and wants to help people overcome their personal problems</li> </ul>	<ul style="list-style-type: none"> <li>• Fireman</li> <li>• Psychologist</li> <li>• Sociologist</li> <li>• Serviceman</li> <li>• Doctor</li> <li>• Teacher</li> <li>• Nurse</li> <li>• Student Counsellor</li> <li>• Welfare Officer</li> <li>• Police Officer</li> </ul>

JENIS MINAT	PERSONALITI	CONTOH PEKERJAAN
<b>MEDICINE</b>	<ul style="list-style-type: none"> <li>• Likes working with people and feels compassion for them</li> </ul>	<ul style="list-style-type: none"> <li>• Dietician</li> <li>• Pharmacist</li> <li>• Doctor</li> <li>• Dentist</li> <li>• Nurse</li> <li>• X-Ray Technician</li> <li>• Anaesthesiologist</li> <li>• Surgeon</li> <li>• Cardiologist</li> <li>• Laboratory Assistant</li> </ul>
<b>SCIENTIFIC</b>	<ul style="list-style-type: none"> <li>• Is interested in carrying out research and experiments</li> <li>• Likes to investigate, observe and question scientific phenomena or to assist those involved in this kind of work</li> </ul>	<ul style="list-style-type: none"> <li>• Agronomist</li> <li>• Bacteriologist</li> <li>• Botanist</li> <li>• Pharmacologist</li> <li>• Physicist</li> <li>• Geologist</li> <li>• Meteorologist</li> <li>• Chemist</li> <li>• Zoologist</li> <li>• Laboratory Assistant</li> </ul>
<b>CALCULATION</b>	<ul style="list-style-type: none"> <li>• Likes working with numbers, statistics and calculations</li> <li>• Likes to use the computer, calculator and possesses a mind that is analytical with an affinity for mathematics</li> </ul>	<ul style="list-style-type: none"> <li>• Mathematician</li> <li>• Accountant</li> <li>• Actuary</li> <li>• Auditor</li> <li>• Quantity Surveyor</li> <li>• System Analyst</li> <li>• Bank Clerk</li> <li>• Computer Programmer</li> <li>• Bookkeeper</li> <li>• Statistician</li> </ul>



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