

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Malaysia, 1982–2023

Table 7: Labour force by highest certificate obtained, Malaysia, 1982–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	5,431.4	-	502.4	671.0	52.9	-	138.0	93.8	7.9	3,135.4	829.5
1983	5,671.8	-	528.7	750.1	61.7	-	137.1	90.2	11.0	3,274.4	818.6
1984	5,862.5	-	605.2	869.4	72.3	-	143.1	114.4	7.0	3,209.2	841.4
1985	5,990.1	-	587.7	905.2	77.9	-	155.2	126.6	9.8	3,322.1	805.2
1986	6,222.1	-	590.4	1,017.8	99.3	-	168.7	136.0	8.5	3,429.8	771.5
1987	6,456.8	-	643.0	1,081.4	120.5	-	173.0	147.2	7.4	3,515.4	768.7
1988	6,637.0	-	621.2	1,173.8	127.0	-	173.7	152.4	9.3	3,645.7	730.9
1989	6,779.4	-	625.3	1,289.9	155.0	-	196.7	155.9	4.1	3,626.8	725.5
1990	7,000.2	-	615.4	1,443.5	157.6	-	222.2	169.3	3.1	3,720.4	668.5
1992	7,319.0	-	962.3	1,683.7	241.2	-	246.8	215.0	-	3,309.9	659.8
1993	7,700.1	-	963.2	1,842.4	240.6	-	248.2	232.3	-	3,546.8	626.5
1995	7,893.1	-	1,114.2	2,051.2	276.9	-	310.4	262.4	-	3,195.5	676.8
1996	8,616.0	-	1,085.7	2,112.8	262.5	-	374.9	315.1	-	3,790.6	673.8
1997	8,784.0	-	1,149.8	2,295.7	286.5	-	424.5	347.1	-	3,647.9	632.5
1998	8,883.6	-	1,213.3	2,340.6	278.9	-	447.0	382.5	-	3,608.0	612.9
1999	9,151.5	-	1,257.5	2,602.7	281.4	-	463.7	420.4	-	3,532.7	592.5
2000	9,556.1	-	1,280.6	2,845.6	294.2	-	553.0	486.2	-	3,564.2	531.8
2001	9,699.4	-	1,315.3	2,978.9	294.4	-	582.3	552.8	-	3,477.3	494.1
2002	9,886.2	-	1,369.9	3,055.4	298.2	-	674.3	625.4	-	3,338.7	523.2
2003	10,239.6	-	1,407.3	3,269.1	309.2	-	747.8	681.2	-	3,335.0	488.2
2004	10,346.2	-	1,415.9	3,307.6	304.7	-	809.2	733.8	-	3,291.1	483.2
2005	10,413.4	-	1,460.2	3,503.7	310.1	-	878.4	758.8	-	3,025.7	476.3
2006	10,628.9	-	1,464.8	3,658.8	320.0	-	865.6	836.4	-	3,079.3	403.7
2007	10,889.5	-	1,494.9	3,801.9	342.9	255.3	768.8	812.8	-	2,957.5	455.2
2008	11,028.1	1,248.0	1,550.2	4,020.4	359.2	220.7	812.6	901.8	-	1,426.3	488.9
2009	11,315.3	1,411.0	1,563.7	4,150.5	372.7	251.7	940.9	1,034.6	-	1,151.2	438.9
2010	12,303.9	1,582.7	1,743.5	4,508.4	375.6	285.2	990.7	1,196.7	-	1,168.7	452.4
2011	12,740.7	1,635.1	1,812.0	4,694.5	387.7	316.4	1,098.1	1,262.8	-	1,115.9	418.2
2012	13,221.7	1,736.0	1,916.4	4,881.5	395.9	314.3	1,086.5	1,352.0	-	1,123.6	415.5
2013	13,980.5	1,913.7	1,991.8	5,180.2	409.5	304.4	1,234.3	1,396.9	-	1,116.0	433.6
2014	14,263.6	1,802.9	1,973.0	5,375.8	422.9	356.7	1,321.4	1,592.1	-	1,025.0	393.8
2015	14,518.0	1,885.6	1,979.1	5,345.6	430.1	370.7	1,427.5	1,740.4	-	893.6	445.3
2016	14,667.8	1,810.1	1,981.5	5,631.4	441.6	366.1	1,408.6	1,829.0	-	813.5	386.1
2017	14,980.1	1,719.0	2,010.4	5,925.0	437.4	370.6	1,465.5	1,941.1	-	721.2	390.1
2018	15,280.3	1,765.6	1,863.4	6,185.8	444.3	400.6	1,535.5	2,002.8	-	666.5	415.8
2019	15,581.6	1,709.6	1,853.4	6,413.2	474.7	386.7	1,590.2	2,106.9	-	595.4	451.4
2020 ⁵	15,406.0	1,459.3	1,555.0	6,763.0	500.4	503.6	1,735.3	2,268.1	-	328.1	293.3
2021 ⁶	15,532.8	1,136.4	1,363.5	6,910.5	448.6	342.4	1,835.3	2,593.9	-	463.9	438.4
2022 ⁶	15,769.7	1,137.6	1,344.0	7,072.1	519.2	401.3	1,812.1	2,687.5	-	435.6	360.5
2023	16,366.8	1,164.5	1,517.0	7,154.6	553.0	345.4	1,824.8	2,905.0	-	503.3	399.3

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the *International Standard Classification of Education (ISCED)*

² Jumlah termasuk angka sijil tertinggi diperolehi 'tidak diketahui'

Total includes 'unknown' highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

⁶ Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Johor, 1982–2023

Table 7: Labour force by highest certificate obtained, Johor, 1982–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	653.1	-	55.5	76.6	4.0	-	17.9	7.8	1.4	419.7	70.2
1983	650.9	-	67.1	69.4	3.7	-	13.4	6.6	1.4	415.0	74.3
1984	688.2	-	64.3	95.4	6.7	-	17.9	9.0	1.3	428.4	65.0
1985	710.4	-	60.3	100.3	8.2	-	19.2	10.7	1.0	449.8	60.9
1986	751.2	-	67.7	125.3	10.4	-	20.4	9.3	1.1	456.4	60.6
1987	781.8	-	75.0	134.3	14.3	-	22.2	10.4	1.2	458.0	66.4
1988	837.0	-	74.2	148.6	13.6	-	24.7	10.5	0.7	500.7	63.4
1989	861.8	-	77.1	158.8	17.5	-	26.7	12.7	0.1	508.3	60.5
1990	949.1	-	82.0	186.9	20.9	-	30.0	12.9	0.3	560.1	56.0
1992	947.1	-	108.9	203.7	28.3	-	28.4	17.6	-	505.1	54.9
1993	1,003.0	-	97.7	226.1	29.3	-	31.3	22.3	-	552.4	44.0
1995	915.4	-	148.9	276.1	28.1	-	29.1	22.8	-	361.4	49.0
1996	1,018.4	-	133.9	283.2	33.1	-	35.0	23.2	-	471.4	38.6
1997	1,076.9	-	148.9	301.4	29.1	-	40.9	26.3	-	488.1	42.2
1998	1,044.3	-	184.0	304.2	24.3	-	44.4	28.0	-	427.7	31.7
1999	1,060.4	-	170.3	342.1	26.8	-	36.1	27.2	-	409.7	48.3
2000	1,222.4	-	203.3	403.9	36.7	-	46.6	36.6	-	459.1	36.2
2001	1,279.0	-	216.0	452.9	36.3	-	53.9	40.4	-	435.0	42.8
2002	1,259.0	-	193.2	464.4	35.6	-	62.4	43.4	-	418.6	41.1
2003	1,315.3	-	213.6	460.7	38.6	-	71.3	50.5	-	439.4	41.1
2004	1,278.8	-	209.5	451.0	35.2	-	72.4	58.8	-	414.7	37.1
2005	1,280.0	-	213.8	475.2	37.2	-	83.7	67.0	-	368.9	34.2
2006	1,285.8	-	225.4	487.4	35.9	-	94.3	66.8	-	347.6	28.4
2007	1,313.6	-	247.7	522.5	33.3	30.0	84.9	56.2	-	309.4	29.7
2008	1,313.1	217.4	202.5	529.9	43.1	28.0	91.9	67.3	-	96.5	36.4
2009	1,350.0	226.9	204.4	576.3	43.8	27.1	100.1	83.4	-	55.7	32.3
2010	1,453.5	243.5	248.6	638.3	40.6	26.7	91.5	88.9	-	55.5	20.1
2011	1,499.9	235.9	235.8	676.9	36.2	32.0	111.7	94.9	-	59.5	17.0
2012	1,529.4	224.9	272.6	675.1	38.4	34.0	110.2	100.3	-	54.7	19.2
2013	1,598.9	236.4	279.6	703.7	42.3	35.5	117.8	108.4	-	55.7	19.6
2014	1,621.1	235.9	276.7	696.4	34.3	33.3	137.7	135.0	-	55.9	15.9
2015	1,633.2	240.8	268.8	697.3	38.6	42.1	138.9	137.8	-	43.4	25.5
2016	1,639.1	219.9	251.0	742.8	41.1	39.9	130.2	143.8	-	50.2	20.4
2017	1,673.8	225.5	239.5	751.2	44.1	45.6	153.1	155.0	-	43.5	16.4
2018	1,745.1	219.0	238.1	770.8	46.0	47.9	168.0	179.2	-	56.2	20.0
2019	1,805.7	231.6	226.6	840.8	44.4	45.7	169.4	174.3	-	47.9	25.0
2020 ⁵	1,990.9	180.5	250.9	1,033.6	47.4	51.9	192.7	188.4	-	23.4	22.0
2021 ⁶	1,986.7	157.1	189.5	1,010.7	59.3	37.5	229.1	223.9	-	39.2	40.4
2022 ⁷	2,013.4	154.1	219.6	1,090.7	54.7	41.1	174.1	221.4	0.0	32.9	24.9
2023	2,071.3	149.3	208.1	1,078.8	54.2	38.5	202.4	259.5	0.0	41.9	38.7

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the International Standard Classification of Education (ISCED)

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Kedah, 1982–2023

Table 7: Labour force by highest certificate obtained, Kedah, 1982–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	403.9	-	28.1	36.9	2.3	-	9.8	3.5	1.8	245.1	76.2
1983	388.2	-	23.2	43.7	2.4	-	13.0	3.2	1.5	226.4	74.7
1984	442.6	-	36.3	54.5	3.8	-	11.4	5.0	0.6	255.9	75.0
1985	445.4	-	32.3	56.4	4.1	-	12.9	4.3	1.1	266.4	67.8
1986	455.0	-	33.1	66.0	4.8	-	12.8	5.2	1.6	265.7	65.9
1987	456.5	-	40.3	67.6	8.3	-	10.5	4.9	0.7	260.8	63.5
1988	496.1	-	39.4	79.7	8.0	-	8.8	5.4	2.6	285.5	64.5
1989	470.0	-	34.7	82.9	8.2	-	12.3	5.7	0.5	265.5	60.2
1990	489.3	-	38.8	93.9	7.7	-	14.2	7.8	0.2	276.8	49.9
1992	514.0	-	60.7	103.3	15.7	-	13.5	7.1	-	263.2	50.6
1993	492.8	-	52.7	93.1	10.3	-	13.5	10.5	-	269.0	43.7
1995	531.7	-	69.0	116.7	16.2	-	14.2	7.6	-	254.8	50.0
1996	549.8	-	65.1	129.4	14.6	-	13.6	8.4	-	269.0	49.7
1997	616.6	-	80.8	148.8	20.5	-	19.4	11.4	-	280.9	54.9
1998	587.1	-	101.1	152.3	21.3	-	23.0	14.2	-	235.9	39.3
1999	701.4	-	108.5	191.4	29.7	-	24.5	15.7	-	270.9	60.8
2000	645.2	-	110.2	191.5	27.7	-	30.2	24.0	-	226.7	34.9
2001	727.4	-	111.2	237.8	22.4	-	33.8	24.0	-	266.1	31.0
2002	666.5	-	113.3	213.2	23.0	-	27.5	25.4	-	231.6	32.3
2003	680.1	-	120.6	226.0	26.9	-	44.0	30.0	-	202.1	30.6
2004	680.3	-	126.7	223.9	22.8	-	44.7	26.6	-	211.8	23.8
2005	677.8	-	125.0	234.6	24.9	-	45.8	33.1	-	189.7	24.8
2006	682.4	-	118.8	250.6	27.6	-	48.1	33.5	-	183.1	20.7
2007	693.1	-	115.1	263.3	27.9	14.5	41.3	34.9	-	171.7	24.4
2008	703.0	43.0	111.0	264.8	29.5	18.0	45.8	42.8	-	123.6	24.5
2009	732.6	66.7	117.3	282.5	27.2	23.2	57.2	47.2	-	91.4	19.8
2010	746.9	53.1	135.7	286.0	26.8	17.9	51.3	53.0	-	107.5	15.7
2011	770.0	61.0	135.8	294.3	29.4	23.2	58.2	52.0	-	101.0	15.1
2012	810.3	74.8	148.2	311.0	25.7	21.2	50.4	51.3	-	105.9	21.9
2013	862.8	74.9	142.5	338.5	30.1	23.6	57.2	57.8	-	116.3	21.8
2014	884.1	69.0	136.1	354.9	34.9	28.7	70.9	71.1	-	99.2	19.2
2015	905.3	84.2	151.2	358.2	34.3	31.3	68.2	75.6	-	75.0	27.4
2016	910.9	98.4	142.1	382.4	31.8	30.6	64.9	85.7	-	52.3	22.9
2017	932.7	95.6	147.1	416.3	34.3	29.7	73.1	81.7	-	40.5	14.5
2018	936.7	94.6	132.6	414.6	30.6	28.1	81.7	102.9	-	35.9	15.7
2019	950.0	92.7	134.9	441.3	29.2	25.9	87.5	98.9	-	23.8	15.7
2020 ⁵	904.5	80.1	117.6	418.9	26.8	27.5	90.1	109.2	-	17.8	16.5
2021 ⁶	916.0	65.1	87.4	435.8	18.6	23.8	113.8	125.9	-	18.9	26.7
2022 ⁶	928.0	58.5	98.2	461.0	34.8	27.1	95.6	119.9	-	14.9	18.0
2023	955.1	67.1	100.8	461.5	32.7	29.5	98.5	128.0	-	10.5	26.6

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

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² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Kelantan, 1982–2023

Table 7: Labour force by highest certificate obtained, Kelantan, 1982–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	319.4	-	25.0	32.0	1.7	-	7.5	3.2	0.7	149.8	99.7
1983	301.3	-	26.6	30.0	2.2	-	13.6	3.5	1.8	141.2	82.4
1984	341.0	-	28.0	45.2	3.8	-	10.0	4.7	0.4	146.7	102.1
1985	344.3	-	24.6	46.2	4.2	-	10.5	5.1	0.8	153.5	99.3
1986	365.1	-	30.6	55.6	4.3	-	10.6	5.0	0.6	175.1	83.4
1987	375.0	-	30.7	61.5	6.9	-	10.2	5.1	0.8	171.1	88.7
1988	393.9	-	32.6	61.7	5.6	-	9.6	6.0	0.8	189.2	88.4
1989	388.3	-	35.6	73.4	7.7	-	11.9	5.5	0.2	170.8	83.1
1990	390.7	-	32.0	83.4	7.6	-	13.0	4.8	0.4	174.4	75.2
1992	404.1	-	41.4	81.5	16.4	-	15.8	8.7	-	166.7	73.5
1993	413.7	-	50.0	94.0	14.4	-	16.1	11.6	-	156.5	70.9
1995	427.6	-	54.7	90.5	17.9	-	17.6	7.1	-	176.7	63.1
1996	460.8	-	53.7	101.2	14.7	-	21.8	11.1	-	181.3	76.9
1997	429.3	-	51.8	98.0	18.9	-	15.6	10.0	-	168.8	66.3
1998	449.1	-	56.3	102.5	17.0	-	20.2	13.1	-	176.6	63.4
1999	451.1	-	49.0	107.8	16.6	-	21.1	13.9	-	183.6	59.2
2000	437.2	-	48.7	117.5	19.3	-	18.9	12.6	-	170.1	50.0
2001	448.0	-	65.6	120.8	21.9	-	21.8	14.6	-	155.9	46.8
2002	439.7	-	60.7	119.4	19.6	-	22.4	17.6	-	153.6	46.5
2003	491.6	-	68.0	153.0	24.9	-	26.6	25.1	-	154.7	39.2
2004	455.1	-	68.1	144.5	22.2	-	30.8	22.4	-	134.9	32.3
2005	454.2	-	68.1	149.1	21.4	-	30.2	23.5	-	125.6	36.3
2006	469.8	-	73.3	157.2	22.0	-	33.2	25.9	-	128.4	29.8
2007	486.2	-	64.8	171.7	22.7	10.1	26.8	27.2	-	130.6	32.3
2008	500.9	19.0	67.6	176.3	28.3	13.0	34.0	35.2	-	94.8	32.9
2009	517.8	35.0	84.1	181.6	26.9	15.0	35.3	35.2	-	73.4	31.4
2010	547.2	58.0	85.0	190.4	28.6	11.9	37.5	39.8	-	64.0	32.1
2011	555.4	54.9	81.4	205.2	31.4	14.0	40.0	44.7	-	54.3	29.5
2012	592.3	61.5	91.9	213.8	37.2	14.4	37.7	42.2	-	61.3	32.3
2013	619.8	61.6	99.6	245.9	35.3	12.7	42.0	44.2	-	47.0	31.5
2014	646.2	54.9	94.9	264.3	37.2	14.2	47.8	59.5	-	46.1	27.3
2015	676.2	56.1	98.9	274.4	40.8	16.4	55.4	66.4	-	34.7	33.1
2016	657.8	46.6	91.5	273.5	35.9	17.6	52.2	73.7	-	32.5	34.3
2017	701.0	57.8	90.2	307.2	39.6	21.8	56.4	68.6	-	30.2	29.3
2018	712.0	47.0	89.5	310.6	39.6	20.5	65.4	79.4	-	31.0	29.0
2019	710.5	40.5	84.9	324.7	34.7	19.4	64.7	87.8	-	27.8	26.2
2020 ⁵	645.2	48.5	74.3	292.8	35.4	17.5	60.8	77.1	-	14.2	24.6
2021 ⁶	644.2	27.9	60.0	318.0	21.7	13.9	60.4	95.2	-	28.9	18.1
2022 ⁷	658.0	40.7	62.5	305.3	37.1	18.3	60.4	92.1	-	19.0	22.7
2023	685.3	36.8	67.7	316.0	34.7	17.8	70.4	110.0	-	16.0	15.9

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the International Standard Classification of Education (ISCED)

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Melaka, 1982–2023

Table 7: Labour force by highest certificate obtained, Melaka, 1982–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	174.1	-	13.4	24.5	2.0	-	5.6	2.9	0.2	108.0	17.3
1983	170.3	-	15.5	27.9	1.7	-	5.0	3.6	0.0	104.3	12.3
1984	171.8	-	16.2	28.0	1.7	-	4.1	3.3	0.0	101.1	17.4
1985	180.0	-	17.7	29.0	2.3	-	5.2	3.6	0.4	105.5	16.3
1986	187.7	-	21.0	33.2	3.3	-	6.8	3.6	0.3	105.5	13.9
1987	192.1	-	19.7	34.0	4.0	-	7.0	3.7	0.0	109.7	14.0
1988	190.9	-	19.6	38.1	4.9	-	6.5	3.9	0.0	104.3	13.6
1989	197.8	-	18.1	43.9	4.1	-	7.3	4.2	0.0	109.7	10.6
1990	187.8	-	12.1	45.3	4.7	-	9.3	5.5	0.0	101.7	9.1
1992	214.4	-	25.3	51.2	4.2	-	7.9	4.6	-	110.9	10.4
1993	225.6	-	27.6	52.4	3.0	-	6.6	2.5	-	122.0	11.4
1995	227.9	-	29.7	68.4	5.6	-	8.5	6.7	-	98.8	10.2
1996	240.7	-	31.5	71.0	5.2	-	9.6	6.3	-	108.8	8.3
1997	261.5	-	37.1	80.8	7.5	-	13.9	8.6	-	102.4	11.2
1998	248.6	-	33.9	82.5	6.9	-	12.7	9.0	-	97.3	6.4
1999	247.9	-	34.9	87.7	7.3	-	12.1	10.7	-	89.1	6.2
2000	256.9	-	27.6	101.6	5.6	-	14.2	8.7	-	92.1	7.1
2001	272.6	-	30.5	110.7	8.2	-	14.9	12.0	-	91.4	5.0
2002	236.2	-	33.1	96.5	7.8	-	19.0	12.3	-	61.9	5.7
2003	280.6	-	39.0	118.8	7.6	-	20.0	14.0	-	74.6	6.6
2004	269.5	-	33.6	111.5	6.4	-	22.6	16.6	-	72.4	6.1
2005	274.5	-	29.8	114.9	7.9	-	25.4	14.6	-	74.5	7.4
2006	276.7	-	33.6	113.9	8.3	-	27.8	19.1	-	70.0	3.9
2007	290.4	-	38.5	117.9	8.1	10.5	25.5	20.2	-	63.3	6.4
2008	290.0	29.7	40.9	120.0	8.2	11.4	24.6	23.4	-	27.3	4.4
2009	290.9	32.8	39.9	125.3	8.6	10.7	25.4	24.6	-	17.1	6.5
2010	338.6	35.3	50.2	146.5	9.1	12.1	26.9	30.3	-	23.4	4.9
2011	343.3	40.8	54.4	148.5	9.1	10.6	31.4	32.4	-	11.9	4.2
2012	358.8	31.7	55.3	151.8	8.9	11.8	33.1	34.8	-	27.0	4.3
2013	378.3	29.6	57.3	166.5	7.6	13.3	34.6	35.2	-	30.3	3.8
2014	398.3	27.1	53.1	181.7	10.7	16.1	39.4	40.0	-	27.8	2.5
2015	402.4	34.8	53.6	180.0	9.5	16.8	43.8	46.7	-	12.4	4.7
2016	400.8	35.9	54.3	180.6	10.2	15.9	47.6	43.1	-	9.6	3.6
2017	410.3	33.7	53.2	174.9	10.5	19.0	52.4	54.0	-	8.4	4.1
2018	421.2	33.8	56.7	175.7	11.3	22.0	52.6	58.3	-	7.3	3.3
2019	432.9	30.3	50.9	186.6	11.1	18.8	60.3	61.8	-	10.2	2.8
2020 ⁵	464.9	35.2	46.7	203.0	12.2	23.7	67.0	65.4	-	9.4	2.5
2021 ⁶	479.6	35.0	23.6	237.5	23.1	11.9	63.1	73.0	-	3.8	8.6
2022 ⁶	494.6	30.5	48.1	243.9	10.6	18.7	63.1	71.4	-	3.2	5.2
2023	508.1	29.1	48.7	232.4	12.4	18.8	66.3	91.7	-	4.5	4.2

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the International Standard Classification of Education (ISCED)

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/'pondok' school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Negeri Sembilan, 1982-2023

Table 7: Labour force by highest certificate obtained, Negeri Sembilan, 1982-2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	222.8	-	17.0	23.9	1.8	-	7.4	3.4	0.3	148.6	20.4
1983	223.5	-	15.2	34.4	2.4	-	6.4	2.7	0.3	146.7	15.4
1984	234.9	-	20.9	33.5	2.8	-	7.4	4.2	0.3	147.5	18.4
1985	221.1	-	18.6	30.2	2.5	-	5.3	4.1	0.2	145.1	15.1
1986	229.5	-	18.4	33.1	2.6	-	6.8	5.0	0.1	147.5	16.0
1987	240.0	-	21.6	36.2	3.1	-	7.7	4.2	0.1	149.0	17.9
1988	242.5	-	17.6	39.9	3.8	-	6.6	4.2	0.0	157.1	13.4
1989	241.0	-	25.4	38.7	3.8	-	5.8	3.5	0.0	150.4	13.4
1990	224.5	-	11.1	41.3	3.2	-	8.2	3.5	0.2	144.4	12.6
1992	259.8	-	27.6	52.7	6.2	-	9.5	5.6	-	146.9	11.3
1993	292.6	-	26.5	56.7	9.9	-	14.1	8.7	-	162.7	14.0
1995	305.6	-	30.0	61.4	9.3	-	11.0	7.8	-	169.3	16.9
1996	327.5	-	28.2	75.3	9.2	-	12.9	7.9	-	181.5	12.4
1997	315.7	-	30.6	77.5	9.9	-	14.6	9.1	-	161.9	12.2
1998	315.7	-	36.2	83.4	8.1	-	17.2	10.7	-	146.8	13.5
1999	285.8	-	32.1	88.4	7.5	-	15.9	10.2	-	124.5	7.3
2000	359.6	-	37.7	114.3	9.1	-	21.5	16.0	-	150.1	11.0
2001	362.8	-	33.0	106.6	9.0	-	22.7	19.4	-	163.0	9.0
2002	337.2	-	29.7	102.1	7.6	-	23.1	17.5	-	146.5	10.8
2003	352.3	-	111.4	39.1	6.8	-	31.5	16.5	-	138.1	8.7
2004	373.6	-	39.7	127.2	9.3	-	32.2	21.6	-	135.5	8.1
2005	386.7	-	40.2	138.9	9.1	-	35.7	22.8	-	132.5	7.4
2006	394.5	-	39.2	141.5	9.7	-	36.9	25.3	-	134.1	7.8
2007	395.8	-	44.3	141.1	9.1	16.4	29.4	24.7	-	122.9	7.9
2008	399.3	30.1	52.8	149.0	8.4	10.5	33.7	26.9	-	78.9	9.1
2009	402.2	35.8	41.8	151.0	9.8	12.9	38.4	27.0	-	78.6	6.9
2010	418.3	34.6	48.8	151.7	10.6	13.5	37.8	32.5	-	81.5	7.4
2011	429.1	36.4	47.2	163.1	10.8	9.6	38.5	37.8	-	77.5	8.3
2012	455.7	32.1	51.4	176.4	8.9	11.4	36.4	39.8	-	90.4	8.9
2013	478.9	63.1	52.0	185.1	10.6	10.9	46.3	43.9	-	57.4	9.4
2014	480.9	68.8	51.8	185.9	9.9	12.7	49.3	50.2	-	45.6	6.7
2015	483.6	59.2	52.4	206.8	12.6	11.8	46.0	50.2	-	38.2	6.4
2016	479.7	59.5	53.4	193.9	12.9	14.6	48.9	53.9	-	38.7	4.1
2017	491.2	45.1	69.0	206.3	11.4	14.3	55.3	62.6	-	24.0	3.2
2018	503.6	55.2	57.1	217.5	12.3	15.6	58.5	63.2	-	19.3	4.9
2019	497.8	47.3	71.7	209.7	11.6	16.9	59.9	65.5	-	11.1	4.1
2020 ⁵	531.3	46.8	60.3	230.3	11.5	19.5	70.4	80.0	-	8.5	4.0
2021 ⁶	526.6	33.4	45.2	245.4	9.7	13.6	72.9	82.1	-	13.5	10.9
2022 ⁶	535.3	30.9	50.5	243.0	13.5	15.2	74.9	93.3	-	8.9	5.0
2023	553.9	35.7	50.3	236.7	14.2	15.2	83.7	105.6	-	7.5	5.0

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the International Standard Classification of Education (ISCED)

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/'pondok' school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Pahang, 1982-2023

Table 7: Labour force by highest certificate obtained, Pahang, 1982-2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	279.6	-	25.3	34.6	1.8	-	7.7	3.0	0.4	176.3	30.4
1983	342.6	-	22.4	42.4	3.4	-	7.8	3.2	0.7	228.5	34.2
1984	321.7	-	38.7	48.7	3.0	-	6.9	3.0	1.2	185.4	34.9
1985	342.7	-	37.3	50.7	1.9	-	9.2	2.7	1.5	204.2	34.9
1986	331.6	-	30.5	49.4	3.8	-	9.3	3.6	0.5	202.3	32.3
1987	354.0	-	33.1	55.8	5.1	-	9.3	6.3	0.4	212.3	31.7
1988	374.8	-	31.5	66.5	3.1	-	8.2	2.9	0.6	230.0	32.0
1989	393.8	-	38.6	75.1	5.7	-	12.6	5.9	0.4	223.2	32.3
1990	442.5	-	46.5	80.1	7.5	-	17.7	8.3	0.1	254.6	27.8
1992	428.9	-	51.2	90.1	10.0	-	14.7	8.0	-	221.8	33.1
1993	393.2	-	40.8	84.2	10.5	-	15.5	5.6	-	206.1	30.6
1995	385.1	-	60.9	94.5	9.7	-	14.0	5.9	-	163.5	36.5
1996	417.0	-	67.3	102.5	10.9	-	15.8	8.3	-	178.6	33.5
1997	407.6	-	63.3	101.8	10.6	-	16.0	10.5	-	178.0	27.5
1998	374.8	-	55.8	103.3	7.8	-	16.0	8.2	-	161.0	22.6
1999	396.2	-	65.2	113.3	8.2	-	16.7	8.0	-	167.2	17.6
2000	459.1	-	64.7	122.1	11.1	-	23.9	15.1	-	199.0	23.2
2001	451.6	-	66.8	132.5	11.6	-	18.1	15.4	-	183.3	24.0
2002	419.0	-	67.7	125.5	13.7	-	17.7	14.8	-	158.2	21.5
2003	477.1	-	61.6	157.6	11.0	-	22.2	21.4	-	181.1	22.1
2004	544.0	-	83.0	186.4	13.4	-	24.9	22.6	-	184.3	29.3
2005	542.7	-	88.0	205.3	12.0	-	35.7	18.8	-	155.0	28.1
2006	571.3	-	83.3	223.3	11.7	-	34.2	24.8	-	171.3	22.6
2007	580.2	-	85.0	217.6	18.1	12.6	29.6	24.8	-	164.6	27.8
2008	605.7	85.7	89.1	232.3	17.4	13.7	33.7	30.4	-	77.6	25.7
2009	622.3	122.3	96.4	229.9	17.8	14.4	41.1	36.8	-	39.4	24.1
2010	608.4	107.0	93.7	241.7	17.6	16.5	37.4	39.9	-	37.0	17.6
2011	624.6	95.9	96.9	257.2	18.1	17.8	43.9	38.5	-	41.3	14.9
2012	650.9	104.4	98.3	261.0	15.3	18.8	44.7	48.8	-	44.4	15.2
2013	678.9	107.8	103.7	256.8	19.1	18.4	49.4	48.7	-	55.8	19.1
2014	702.1	111.1	98.7	275.9	18.2	22.2	54.0	55.6	-	51.8	14.5
2015	718.2	104.4	103.8	283.9	19.5	23.8	61.4	55.6	-	46.2	19.6
2016	710.5	93.2	100.8	288.2	21.9	21.5	62.0	66.6	-	38.1	18.1
2017	710.9	86.6	100.6	312.2	19.8	18.8	58.8	64.4	-	35.0	14.7
2018	735.6	94.9	98.4	323.4	20.7	21.3	62.3	70.2	-	31.0	13.4
2019	741.0	92.7	99.1	320.9	20.5	23.2	70.8	76.4	-	25.3	11.9
2020 ⁵	703.4	84.1	81.8	313.4	20.1	24.0	68.0	78.2	-	19.1	14.6
2021 ⁶	694.7	67.5	59.4	320.1	24.4	19.4	71.7	93.3	-	21.8	17.3
2022 ⁶	708.8	67.3	74.7	359.4	20.7	22.7	63.3	74.0	-	15.8	10.9
2023	735.7	60.3	73.4	357.3	23.2	22.0	80.7	85.6	-	24.8	8.4

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the International Standard Classification of Education (ISCED)

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Pulau Pinang, 1982–2023

Table 7: Labour force by highest certificate obtained, Pulau Pinang, 1982–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	396.0	-	42.7	54.2	4.2	-	9.4	6.9	0.1	249.9	28.5
1983	421.0	-	46.2	66.4	7.7	-	7.1	8.2	-	258.4	27.0
1984	397.9	-	43.2	71.1	5.1	-	9.3	8.8	0.1	233.6	26.5
1985	408.5	-	39.3	78.4	6.6	-	11.2	10.0	-	240.1	23.1
1986	427.2	-	43.7	85.8	10.5	-	10.7	10.4	0.1	244.9	21.1
1987	432.8	-	46.9	88.1	8.1	-	9.5	9.2	0.2	246.8	24.0
1988	427.8	-	46.0	91.8	11.4	-	12.9	9.5	-	239.2	16.9
1989	453.9	-	39.5	102.6	16.6	-	8.1	10.6	0.2	257.3	19.0
1990	470.3	-	43.8	111.5	12.0	-	15.2	11.2	0.3	260.3	15.9
1992	521.4	-	82.0	168.3	21.9	-	15.3	16.7	-	200.6	16.7
1993	543.1	-	103.8	212.7	31.3	-	6.2	17.6	-	146.9	24.6
1995	492.7	-	99.3	185.0	23.9	-	17.1	16.1	-	135.2	16.0
1996	452.4	-	80.6	162.2	17.6	-	18.6	16.1	-	146.4	10.7
1997	558.0	-	89.4	185.3	21.9	-	30.2	23.1	-	192.5	15.4
1998	599.3	-	81.7	182.0	18.2	-	31.7	31.0	-	236.9	17.8
1999	617.5	-	90.9	203.8	23.3	-	35.8	32.3	-	211.9	19.4
2000	682.3	-	100.4	235.4	25.4	-	35.9	36.8	-	228.5	19.8
2001	733.3	-	105.7	255.1	28.3	-	39.0	50.2	-	239.4	15.6
2002	657.2	-	113.0	242.5	26.2	-	46.2	46.7	-	165.8	16.6
2003	686.3	-	103.4	262.6	27.8	-	48.4	49.0	-	182.6	12.6
2004	636.7	-	83.5	239.1	19.0	-	47.5	46.9	-	189.0	11.7
2005	634.9	-	85.9	236.2	19.3	-	58.7	54.6	-	168.5	11.6
2006	658.9	-	91.4	243.0	21.5	-	56.1	62.0	-	173.8	11.0
2007	667.6	-	75.1	240.4	19.7	12.6	55.0	64.2	-	188.1	12.4
2008	688.4	63.3	100.3	251.3	20.5	16.4	60.1	69.8	-	95.3	11.3
2009	707.1	41.7	89.5	262.6	23.8	15.1	66.4	72.5	-	124.3	11.2
2010	759.0	62.2	106.1	281.7	21.4	19.3	70.1	84.7	-	103.8	9.6
2011	787.5	79.2	115.1	288.4	24.5	20.5	76.4	83.8	-	89.9	9.7
2012	795.8	96.2	112.7	289.6	22.9	22.8	78.9	82.5	-	81.8	8.3
2013	826.1	117.8	120.4	297.0	22.2	17.8	77.9	91.2	-	71.9	9.8
2014	852.5	94.7	114.5	354.5	26.9	25.0	80.8	105.0	-	43.1	8.0
2015	848.2	96.3	125.6	325.8	27.1	22.1	94.4	110.2	-	40.4	6.2
2016	845.5	88.3	138.0	319.1	23.4	21.3	93.5	133.9	-	22.3	5.7
2017	841.1	91.7	119.4	325.5	23.2	22.4	92.7	131.4	-	27.5	7.3
2018	849.4	77.6	107.8	348.8	26.0	18.8	97.0	137.9	-	22.6	13.0
2019	852.3	69.9	109.6	356.6	26.2	23.3	85.5	154.1	-	22.2	4.9
2020 ⁵	866.8	55.8	102.3	380.4	25.5	23.6	101.2	165.4	-	7.0	5.6
2021 ⁶	886.3	42.9	71.6	436.0	10.9	14.4	101.6	170.3	-	21.4	17.2
2022 ⁷	895.6	49.5	82.3	431.4	25.0	21.1	93.3	164.5	-	17.9	10.7
2023	926.2	43.5	80.5	428.6	30.6	16.5	100.5	193.1	-	18.6	14.1

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the *International Standard Classification of Education (ISCED)*

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

⁶ Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Perak, 1982–2023

Table 7: Labour force by highest certificate obtained, Perak, 1982–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	638.6	-	61.9	52.8	3.1	-	17.7	5.1	1.1	422.8	74.0
1983	704.9	-	75.6	67.5	4.2	-	13.9	5.3	2.0	451.0	85.4
1984	697.2	-	69.3	76.6	4.9	-	16.9	7.9	1.5	437.9	82.3
1985	713.1	-	66.8	83.1	5.1	-	18.6	8.7	1.2	449.5	79.9
1986	734.2	-	69.1	93.5	7.0	-	21.4	9.3	0.9	455.0	77.7
1987	728.8	-	73.9	89.2	8.3	-	21.6	9.1	1.2	458.2	67.2
1988	715.0	-	78.4	95.1	7.7	-	23.4	8.6	0.9	439.0	62.0
1989	726.5	-	69.3	101.7	12.0	-	21.5	9.0	0.6	452.7	59.6
1990	706.8	-	60.9	111.6	10.5	-	20.6	10.6	0.7	427.6	64.3
1992	719.7	-	80.7	126.8	17.6	-	26.3	11.2	-	403.1	53.9
1993	699.6	-	82.3	136.2	12.2	-	22.9	13.5	-	391.1	41.3
1995	659.9	-	93.7	139.9	14.1	-	21.1	9.8	-	341.5	39.9
1996	746.9	-	69.2	158.7	14.9	-	22.5	14.5	-	420.4	46.6
1997	760.6	-	109.8	200.3	16.7	-	32.9	17.7	-	341.4	41.9
1998	712.7	-	85.0	163.1	16.2	-	27.1	15.4	-	360.7	45.3
1999	715.4	-	99.9	194.6	14.2	-	22.4	15.6	-	331.4	37.2
2000	771.3	-	93.6	207.3	19.7	-	33.8	21.7	-	358.1	37.1
2001	761.3	-	106.5	221.0	17.4	-	29.3	21.8	-	335.7	29.5
2002	820.6	-	117.5	251.7	17.9	-	43.6	26.4	-	329.8	33.6
2003	771.4	-	116.9	241.6	16.6	-	36.2	29.7	-	306.9	23.4
2004	818.3	-	127.0	261.4	18.3	-	50.9	33.9	-	296.5	30.4
2005	828.8	-	135.0	294.0	20.0	-	56.3	27.3	-	266.7	29.4
2006	845.5	-	113.7	290.7	20.5	-	46.1	36.7	-	312.1	25.6
2007	877.9	-	137.0	322.6	23.3	17.4	44.5	32.9	-	273.8	26.3
2008	892.6	112.1	148.0	336.4	25.4	15.8	49.7	39.8	-	137.6	27.7
2009	923.7	102.1	147.3	366.3	25.3	20.3	63.8	52.6	-	118.7	27.3
2010	906.0	118.4	152.4	351.7	25.5	22.7	53.3	58.1	-	101.4	22.5
2011	944.6	126.8	166.5	363.3	27.7	23.1	61.6	67.8	-	90.8	16.9
2012	955.4	147.3	168.2	380.0	23.3	18.3	66.6	64.1	-	73.7	13.9
2013	985.2	145.9	177.0	394.9	26.8	20.3	70.2	61.0	-	72.4	16.7
2014	987.2	119.0	175.8	416.0	25.3	25.1	81.7	72.1	-	60.4	11.9
2015	1,014.3	129.5	167.8	418.1	24.9	27.0	90.7	79.3	-	55.8	21.2
2016	1,023.1	130.7	175.1	430.5	27.4	24.9	87.7	95.5	-	39.8	11.4
2017	1,052.4	125.6	172.1	439.7	25.2	26.7	88.8	104.8	-	48.7	20.8
2018	1,069.7	113.9	161.1	475.4	32.6	31.0	93.7	104.2	-	49.5	8.5
2019	1,080.3	118.3	145.5	485.2	30.4	30.5	104.6	111.4	-	40.0	14.4
2020 ¹	1,090.8	141.0	137.2	487.4	30.2	35.9	102.7	114.2	-	27.4	14.8
2021 ¹	1,109.6	91.0	121.9	500.0	34.0	26.5	108.7	144.5	-	58.0	24.9
2022 ²	1,119.1	86.3	116.6	536.9	31.0	35.4	112.3	137.2	-	50.7	12.7
2023	1,148.8	82.8	113.3	530.3	33.0	34.8	121.5	167.3	-	52.2	13.6

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the *International Standard Classification of Education (ISCED)*

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Perlis, 1982–2023

Table 7: Labour force by highest certificate obtained, Perlis, 1982–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	58.1	-	4.0	5.8	0.6	-	1.8	0.6	0.1	35.7	9.6
1983	66.0	-	4.1	7.9	0.3	-	1.5	0.1	0.0	44.6	7.6
1984	64.8	-	5.0	8.6	0.6	-	2.0	0.6	0.0	41.2	6.9
1985	65.5	-	6.1	9.4	0.4	-	2.4	1.2	0.2	38.5	7.3
1986	62.6	-	6.3	10.3	0.2	-	1.5	1.2	0.3	35.2	7.6
1987	64.9	-	6.4	10.1	1.1	-	1.7	1.1	0.1	38.0	6.2
1988	70.9	-	7.2	16.3	0.4	-	1.1	1.6	0.9	36.9	6.5
1989	70.9	-	6.1	17.3	1.1	-	2.3	1.1	0.3	36.1	6.7
1990	59.7	-	6.3	11.1	1.2	-	1.8	0.9	-	33.8	4.6
1992	68.8	-	7.1	14.3	2.0	-	2.5	1.6	-	34.6	6.6
1993	71.7	-	4.7	22.3	1.0	-	1.9	0.9	-	32.1	8.8
1995	71.8	-	9.0	16.4	2.2	-	1.9	1.4	-	32.6	8.4
1996	71.5	-	9.0	17.3	1.7	-	3.0	2.0	-	33.3	5.1
1997	71.8	-	9.2	19.0	2.1	-	3.2	1.6	-	31.6	5.0
1998	74.2	-	13.1	20.3	2.5	-	2.8	1.6	-	28.4	5.4
1999	81.2	-	13.1	24.5	3.0	-	3.7	2.1	-	28.6	6.2
2000	77.0	-	12.6	24.6	2.6	-	4.4	2.7	-	26.7	3.6
2001	85.9	-	14.0	27.8	2.7	-	3.4	2.9	-	30.0	5.0
2002	58.8	-	8.7	18.8	2.5	-	3.8	2.7	-	19.2	3.0
2003	80.1	-	16.7	27.4	3.1	-	4.1	3.4	-	21.1	4.3
2004	76.3	-	15.0	27.7	3.1	-	4.4	3.3	-	19.3	3.4
2005	76.2	-	13.6	30.9	3.2	-	6.1	3.8	-	15.5	3.1
2006	77.0	-	13.2	30.0	3.1	-	5.8	3.5	-	18.1	3.2
2007	82.5	-	15.5	31.8	3.7	2.0	4.9	5.2	-	16.8	2.6
2008	84.0	7.2	13.5	34.3	4.2	2.5	5.3	6.4	-	7.8	2.7
2009	84.3	6.9	14.6	33.5	3.9	3.2	6.0	6.7	-	6.7	2.7
2010	83.6	9.9	14.3	33.0	3.5	2.9	5.1	7.6	-	4.2	3.3
2011	86.8	12.3	15.1	33.7	3.7	2.5	6.0	7.8	-	3.4	2.3
2012	90.6	12.4	16.8	37.1	4.0	2.6	5.5	7.2	-	2.7	2.2
2013	97.9	12.4	17.4	42.5	4.1	2.9	6.5	6.9	-	2.8	2.3
2014	98.5	11.0	14.3	43.4	4.8	2.9	8.2	9.4	-	3.0	1.4
2015	101.1	10.0	14.9	47.3	4.3	3.7	8.2	9.9	-	1.7	1.1
2016	103.1	10.2	15.0	47.2	4.5	3.0	8.9	11.0	-	1.7	1.7
2017	101.9	6.7	14.3	44.8	4.9	4.0	9.2	13.9	-	2.7	1.5
2018	107.6	9.0	15.2	48.7	4.5	4.0	9.4	12.4	-	2.9	1.5
2019	112.2	8.2	12.4	50.5	5.6	5.1	11.2	14.2	-	4.0	1.1
2020 ⁵	121.7	8.6	13.9	56.6	4.6	5.2	13.5	15.4	-	3.1	0.8
2021 ⁶	122.7	6.3	13.1	62.4	4.2	2.6	11.2	19.8	-	1.8	1.1
2022 ⁷	126.0	7.6	11.3	59.1	5.0	4.9	17.1	16.4	-	2.8	2.0
2023	130.6	8.0	13.5	58.7	4.9	5.6	15.9	20.9	-	1.7	1.4

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the International Standard Classification of Education (ISCED)

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Selangor, 1982–2023

Table 7: Labour force by highest certificate obtained, Selangor, 1982–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	691.9	-	70.6	137.0	14.8	-	22.7	28.8	0.7	371.9	45.4
1983	757.2	-	70.0	155.1	16.8	-	20.6	27.0	1.1	412.6	54.0
1984	718.8	-	81.6	162.9	17.0	-	24.3	30.6	0.6	353.0	48.8
1985	740.6	-	85.8	171.7	18.2	-	24.6	32.2	1.6	365.8	40.6
1986	823.7	-	77.9	193.7	23.0	-	31.7	38.7	1.4	413.3	43.9
1987	916.6	-	92.0	215.6	26.6	-	34.0	46.2	1.2	452.5	48.4
1988	949.0	-	77.0	230.6	30.3	-	32.3	53.0	0.7	478.1	46.8
1989	936.8	-	83.9	256.3	37.6	-	39.5	48.2	0.9	426.4	43.8
1990	1,060.0	-	89.1	304.3	39.8	-	43.1	55.8	0.4	486.0	41.5
1992	1,092.8	-	199.2	357.7	57.1	-	50.1	69.7	-	317.1	41.9
1993	1,110.1	-	171.8	354.5	47.2	-	49.8	67.3	-	382.9	36.7
1995	1,366.0	-	200.9	455.0	73.4	-	87.0	98.7	-	391.6	57.0
1996	1,371.1	-	181.8	412.6	57.5	-	103.8	105.0	-	461.9	48.1
1997	1,343.0	-	139.6	442.8	60.4	-	105.3	105.4	-	450.8	38.9
1998	1,457.0	-	159.3	485.7	60.4	-	115.1	119.9	-	479.9	36.7
1999	1,455.0	-	167.4	506.7	56.7	-	119.8	130.0	-	437.7	36.7
2000	1,715.3	-	187.2	572.8	56.0	-	161.3	167.9	-	537.6	32.5
2001	1,552.5	-	172.3	550.1	55.2	-	160.9	176.1	-	411.7	25.5
2002	1,803.2	-	208.9	616.5	58.4	-	205.0	216.4	-	454.4	43.3
2003	1,895.3	-	211.5	673.6	61.4	-	233.2	226.2	-	448.0	41.2
2004	2,028.1	-	235.5	692.5	67.3	-	238.9	267.4	-	480.5	46.0
2005	2,048.8	-	258.5	737.7	61.2	-	264.2	269.0	-	407.7	50.4
2006	2,084.4	-	261.9	767.7	68.9	-	243.6	304.2	-	411.2	26.9
2007	2,128.0	-	249.5	796.9	67.9	68.4	222.7	280.1	-	394.9	47.4
2008	2,159.8	171.0	282.7	846.5	55.8	39.2	211.8	314.9	-	184.4	53.4
2009	2,173.3	196.0	251.6	846.6	63.1	46.4	258.9	362.9	-	110.3	37.5
2010	2,634.4	228.8	268.6	1,045.5	75.4	70.1	318.0	442.6	-	137.6	47.7
2011	2,710.8	278.0	319.3	1,028.4	69.3	77.8	328.5	454.8	-	115.4	39.3
2012	2,842.6	282.8	327.7	1,094.9	78.8	73.7	322.9	522.6	-	108.7	30.6
2013	3,006.2	319.1	347.3	1,141.5	68.3	70.7	388.1	541.7	-	106.3	23.2
2014	3,096.0	297.0	347.3	1,184.6	71.2	91.7	393.8	562.0	-	126.6	21.7
2015	3,212.9	352.2	343.4	1,128.9	69.4	87.4	461.9	632.9	-	109.8	26.9
2016	3,325.0	309.0	394.4	1,277.9	80.0	84.3	438.2	644.1	-	68.8	28.2
2017	3,457.5	276.3	367.6	1,389.4	67.8	81.9	455.7	712.6	-	70.7	35.5
2018	3,546.3	316.4	357.9	1,496.6	62.8	99.8	440.9	677.9	-	67.8	26.0
2019	3,592.9	279.1	331.2	1,515.8	94.4	93.1	459.6	740.8	-	45.7	33.1
2020 ⁵	3,761.5	203.0	236.0	1,700.2	100.9	164.0	535.3	775.8	-	28.3	17.9
2021 ⁶	3,809.6	193.7	337.3	1,625.2	118.2	66.6	597.3	818.1	-	32.9	20.3
2022 ⁶	3,853.0	175.3	185.4	1,579.0	117.8	114.4	631.4	975.4	-	39.8	34.5
2023	3,967.6	209.1	331.1	1,658.7	161.9	58.7	516.7	969.5	-	43.8	18.3

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the International Standard Classification of Education (ISCED)

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Terengganu, 1982-2023

Table 7: Labour force by highest certificate obtained, Terengganu, 1982-2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	227.2	-	14.7	25.4	0.6	-	5.3	2.3	0.6	118.0	60.3
1983	243.1	-	15.4	29.7	1.2	-	9.7	2.2	0.9	134.5	49.3
1984	219.3	-	17.7	31.3	1.5	-	6.8	2.9	0.4	114.2	44.4
1985	228.9	-	17.5	34.3	1.7	-	7.6	3.9	0.7	116.1	47.0
1986	241.4	-	19.8	40.5	2.6	-	7.0	4.1	1.0	123.5	43.0
1987	236.5	-	17.7	44.1	4.6	-	7.6	3.7	0.7	116.0	41.9
1988	253.6	-	20.9	45.2	5.7	-	8.5	4.5	1.3	124.2	43.3
1989	262.1	-	19.5	50.9	5.8	-	7.9	4.5	0.4	130.3	42.8
1990	244.6	-	17.9	55.1	4.9	-	6.4	3.4	0.3	118.5	38.1
1992	267.7	-	23.9	58.5	9.2	-	12.6	5.5	-	124.7	33.4
1993	302.1	-	28.8	76.2	7.1	-	11.8	5.4	-	143.9	28.8
1995	284.9	-	34.9	78.1	12.9	-	12.9	7.2	-	109.2	29.6
1996	308.1	-	26.9	78.6	9.4	-	13.6	7.6	-	138.3	33.8
1997	292.9	-	34.9	89.0	10.0	-	14.4	8.3	-	107.7	28.5
1998	305.6	-	36.3	88.3	10.0	-	15.1	8.2	-	113.8	33.9
1999	312.3	-	35.7	98.7	10.3	-	16.1	11.1	-	116.0	24.4
2000	315.4	-	39.2	105.7	10.9	-	18.5	12.6	-	104.1	24.1
2001	307.1	-	36.2	105.8	10.2	-	17.1	13.6	-	105.6	18.5
2002	288.9	-	38.0	102.1	10.2	-	16.6	14.6	-	92.7	14.7
2003	355.1	-	43.9	120.8	12.7	-	25.8	19.2	-	113.3	19.3
2004	347.9	-	39.5	122.3	13.8	-	26.7	18.7	-	109.9	17.0
2005	353.1	-	42.9	127.1	14.8	-	31.0	20.5	-	101.6	15.1
2006	364.6	-	49.5	139.6	11.8	-	32.1	24.8	-	90.1	16.8
2007	372.7	-	50.0	141.0	13.7	11.9	27.6	24.8	-	90.1	13.7
2008	388.8	53.5	52.0	147.1	16.0	15.4	29.8	27.8	-	32.8	14.4
2009	405.6	51.1	54.4	158.3	15.3	19.4	31.9	29.3	-	32.1	13.9
2010	380.6	35.5	52.5	149.5	12.7	18.9	27.7	29.3	-	43.9	10.6
2011	403.2	35.1	50.4	159.2	16.2	19.0	33.6	33.8	-	41.5	14.4
2012	401.8	32.5	53.1	167.5	14.5	19.5	31.3	31.8	-	40.1	11.6
2013	421.3	34.1	52.9	175.3	15.6	17.4	31.6	32.7	-	50.7	11.1
2014	432.8	28.6	49.7	182.0	16.8	21.6	39.0	38.9	-	41.7	14.5
2015	438.0	30.6	46.0	195.6	14.4	21.7	40.7	42.5	-	34.7	11.8
2016	447.2	31.2	49.9	189.1	16.2	22.5	44.6	50.0	-	33.0	10.7
2017	458.8	22.6	50.2	202.3	15.8	24.7	46.6	55.1	-	30.1	11.3
2018	470.3	28.8	45.1	206.5	16.3	25.8	51.6	58.4	-	24.2	13.6
2019	488.2	31.0	48.7	211.0	17.0	25.9	56.4	61.9	-	23.6	12.7
2020 ⁵	455.5	38.8	43.0	206.4	15.7	26.2	49.0	51.9	-	11.8	12.7
2021 ⁶	456.9	16.9	37.3	232.1	10.8	19.9	47.6	61.2	-	14.1	16.9
2022 ⁷	467.1	24.2	41.2	216.3	16.0	23.4	52.7	58.9	-	20.6	13.8
2023	478.7	21.8	35.8	222.4	16.8	24.0	64.3	67.7	-	15.7	10.3

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the *International Standard Classification of Education (ISCED)*

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

⁶ Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Sabah, 1982–2023

Table 7: Labour force by highest certificate obtained, Sabah, 1982–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	354.3	-	43.4	27.1	2.9	-	2.8	4.4	0.3	182.0	91.4
1983	393.8	-	46.6	34.2	3.1	-	3.1	5.0	0.4	201.6	99.8
1984	425.9	-	43.7	33.2	2.6	-	4.8	6.1	0.2	226.4	108.9
1985	431.0	-	43.0	33.2	2.5	-	4.4	6.3	0.2	231.9	109.5
1986	441.6	-	46.2	38.8	3.9	-	4.7	6.3	0.2	239.5	101.9
1987	466.5	-	45.8	42.7	4.1	-	5.1	8.1	0.3	254.2	106.1
1988	462.6	-	53.1	48.5	4.5	-	4.3	6.5	0.1	249.2	96.4
1989	477.5	-	51.6	47.1	3.8	-	6.3	5.3	0.1	266.9	96.3
1990	479.9	-	58.5	60.4	5.5	-	5.7	7.4	-	250.4	92.0
1992	524.3	-	54.2	65.3	7.3	-	6.4	7.3	-	276.4	107.3
1993	725.3	-	89.9	120.3	17.2	-	8.0	11.4	-	357.6	120.9
1995	764.7	-	91.6	109.6	14.2	-	10.8	11.6	-	392.5	134.4
1996	1,032.3	-	130.0	142.6	15.2	-	16.1	14.8	-	562.3	150.8
1997	1,048.5	-	137.1	149.9	23.1	-	18.8	14.9	-	565.5	139.3
1998	1,123.7	-	137.4	162.2	20.3	-	25.0	18.8	-	612.5	147.2
1999	1,167.2	-	152.3	183.8	24.5	-	26.1	20.1	-	620.1	140.2
2000	991.6	-	133.9	192.8	22.4	-	36.3	26.0	-	463.9	116.2
2001	1,048.0	-	127.7	200.8	23.8	-	33.0	31.6	-	516.9	114.3
2002	1,093.2	-	134.2	211.0	26.5	-	42.9	36.1	-	525.7	116.6
2003	1,134.5	-	135.8	230.0	25.6	-	44.8	38.7	-	538.2	120.6
2004	1,156.9	-	137.2	250.3	29.8	-	56.8	34.0	-	530.4	118.4
2005	1,181.9	-	133.8	258.8	34.4	-	55.1	38.7	-	542.0	119.2
2006	1,230.4	-	136.5	296.5	35.6	-	63.5	42.1	-	551.8	104.4
2007	1,267.7	-	137.0	282.8	47.8	15.7	53.2	53.3	-	556.6	121.3
2008	1,294.2	213.0	158.4	333.6	44.7	13.1	59.7	60.1	-	258.3	153.4
2009	1,345.3	254.2	176.2	342.7	50.7	17.9	67.8	71.4	-	231.3	133.0
2010	1,480.7	326.7	192.0	347.3	43.4	21.0	70.2	68.8	-	252.0	159.4
2011	1,562.5	302.2	202.2	381.3	52.9	24.8	80.0	84.7	-	269.9	164.4
2012	1,627.9	339.4	211.4	424.8	56.9	20.9	72.9	84.6	-	265.6	151.4
2013	1,801.7	356.3	238.2	457.8	55.4	22.3	94.2	90.2	-	318.6	168.8
2014	1,831.6	362.0	238.8	460.7	69.0	21.4	98.3	104.6	-	309.6	167.2
2015	1,863.4	371.4	235.0	472.6	67.6	23.6	93.1	120.7	-	288.2	191.1
2016	1,927.1	387.4	226.3	517.0	71.9	27.2	97.5	109.6	-	327.8	162.4
2017	1,903.8	372.2	244.5	516.5	68.1	22.4	105.5	125.6	-	274.0	175.2
2018	1,937.6	372.4	230.5	559.3	71.7	22.8	102.0	125.9	-	243.4	209.4
2019	2,025.7	390.1	238.9	569.2	75.1	20.9	114.7	131.8	-	241.7	243.4
2020 ⁵	1,585.4	297.4	155.0	543.3	97.1	25.6	116.7	136.1	-	106.4	107.8
2021 ⁶	1,605.7	229.4	127.8	596.8	24.9	20.1	97.8	177.5	-	158.0	173.3
2022 ⁷	1,629.4	236.0	148.1	592.6	78.3	18.8	104.5	151.7	-	146.9	152.4
2023	1,754.0	230.4	160.9	600.9	62.2	20.1	107.2	155.5	-	207.5	209.3

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the International Standard Classification of Education (ISCED)

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, Sarawak, 1982–2023

Table 7: Labour force by highest certificate obtained, Sarawak, 1982–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	539.7	-	40.3	37.7	3.3	-	10.2	5.8	0.1	254.8	187.6
1983	569.5	-	48.7	41.0	3.2	-	10.4	6.5	0.1	275.3	184.2
1984	616.7	-	53.6	43.8	3.2	-	12.4	8.3	-	310.3	185.0
1985	632.7	-	54.6	48.1	4.6	-	12.1	10.3	0.2	320.3	182.6
1986	674.8	-	62.8	58.0	5.9	-	13.2	9.9	0.2	340.1	184.8
1987	712.2	-	74.8	62.6	5.6	-	13.8	9.0	0.1	370.6	175.5
1988	710.3	-	72.0	67.3	5.5	-	13.6	11.3	0.3	372.5	167.9
1989	760.0	-	71.5	80.8	5.8	-	16.7	12.2	0.3	391.9	180.9
1990	775.4	-	72.4	94.1	8.2	-	19.4	10.4	-	403.8	167.2
1992	771.1	-	80.7	106.0	12.4	-	17.6	13.8	-	390.3	150.3
1993	810.2	-	93.1	117.3	16.9	-	20.4	16.2	-	410.1	136.4
1995	828.6	-	93.8	133.0	17.5	-	28.2	14.6	-	395.6	145.8
1996	869.5	-	98.5	138.3	18.0	-	32.4	20.6	-	428.2	133.6
1997	864.9	-	108.5	149.0	18.8	-	33.9	19.0	-	407.9	127.7
1998	868.1	-	119.3	157.4	20.9	-	32.9	22.2	-	384.5	130.8
1999	906.9	-	128.3	191.9	23.5	-	38.6	28.2	-	384.9	111.2
2000	915.7	-	116.0	180.9	18.7	-	39.3	22.2	-	413.1	125.4
2001	918.0	-	119.4	191.1	21.4	-	41.8	29.1	-	403.3	111.8
2002	955.8	-	124.0	197.1	20.0	-	45.8	30.6	-	410.2	128.0
2003	946.4	-	129.3	208.4	20.3	-	47.6	37.3	-	393.2	110.1
2004	955.2	-	123.0	223.0	20.6	-	58.0	46.1	-	378.7	105.5
2005	950.3	-	131.2	232.8	24.6	-	55.6	49.0	-	356.7	100.2
2006	958.0	-	126.1	256.4	22.8	-	52.1	49.9	-	359.7	91.1
2007	997.4	-	133.3	266.3	27.1	16.9	50.0	59.1	-	350.8	94.0
2008	973.0	173.3	144.0	293.8	33.0	11.9	47.0	51.3	-	136.2	82.5
2009	1,024.2	177.9	152.7	309.8	34.6	15.4	55.4	62.4	-	132.3	83.8
2010	1,093.7	206.8	184.6	321.9	35.6	17.7	53.8	67.6	-	112.2	93.5
2011	1,103.4	200.5	185.4	345.3	32.1	22.5	60.7	76.0	-	107.2	73.5
2012	1,184.9	226.2	194.5	353.7	39.7	23.4	67.6	80.3	-	113.2	86.2
2013	1,234.2	264.2	189.8	380.0	44.8	19.5	73.5	73.0	-	103.4	85.9
2014	1,271.4	250.2	215.3	415.2	40.1	24.2	78.6	88.8	-	85.8	73.1
2015	1,258.3	251.5	206.4	391.4	39.5	26.1	83.4	104.6	-	90.1	65.2
2016	1,260.1	244.8	200.5	424.5	44.8	25.1	80.7	103.5	-	77.5	58.7
2017	1,292.6	222.7	233.3	459.3	51.5	22.4	81.7	107.7	-	64.5	49.5
2018	1,316.7	251.8	187.6	486.9	47.5	27.0	85.9	117.2	-	61.8	50.9
2019	1,346.8	225.7	207.3	514.1	51.0	24.8	98.6	120.8	-	57.2	47.5
2020 ⁵	1,141.6	184.6	160.9	455.1	39.0	24.1	90.1	108.4	-	39.1	40.3
2021 ⁶	1,155.7	140.7	130.1	514.7	38.3	50.2	89.1	116.6	-	37.3	38.6
2022 ⁷	1,180.8	149.6	153.0	532.4	47.7	17.5	83.0	120.5	-	38.7	38.3
2023	1,234.6	149.8	171.2	533.1	50.0	26.1	102.5	138.8	-	34.6	28.5

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the International Standard Classification of Education (ISCED)

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, W.P. Kuala Lumpur, 1982-2023

Table 7: Labour force by highest certificate obtained, W.P. Kuala Lumpur, 1982-2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1982	472.6	-	60.5	102.4	9.6	-	12.2	16.3	0.2	252.7	18.7
1983	439.6	-	52.1	100.5	9.4	-	11.5	13.1	0.8	234.3	18.0
1984	504.5	-	84.3	134.3	15.5	-	8.7	19.6	0.4	217.9	23.9
1985	509.7	-	81.4	131.8	15.5	-	11.7	23.1	0.6	226.3	19.2
1986	481.3	-	61.2	132.1	16.9	-	11.4	24.2	0.3	217.4	17.8
1987	485.5	-	63.1	137.3	19.9	-	12.7	25.7	0.3	210.7	15.8
1988	498.7	-	49.6	141.7	22.5	-	13.1	24.3	0.4	232.5	14.7
1989	524.3	-	52.5	157.5	25.0	-	17.5	27.1	0.2	229.8	14.8
1990	503.9	-	41.5	161.6	23.4	-	17.3	26.2	0.3	219.8	13.8
1992	569.6	-	117.4	201.4	32.9	-	26.0	37.3	-	139.6	14.9
1993	598.6	-	89.4	192.1	30.3	-	30.1	37.9	-	205.9	12.9
1995	598.4	-	93.4	217.3	31.3	-	36.1	44.0	-	158.7	17.5
1996	710.8	-	103.4	232.1	39.4	-	55.3	68.1	-	188.7	23.7
1997	700.7	-	104.0	242.4	35.7	-	64.4	79.9	-	155.9	18.4
1998	685.6	-	108.5	242.4	43.8	-	62.6	81.2	-	129.7	17.3
1999	710.4	-	104.3	257.6	29.7	-	73.1	94.3	-	136.4	15.0
2000	680.4	-	102.1	266.7	27.7	-	67.3	83.0	-	124.2	9.5
2001	723.2	-	106.1	256.2	25.5	-	92.0	100.4	-	129.3	13.7
2002	816.9	-	122.0	284.5	28.2	-	96.3	119.4	-	159.1	7.5
2003	740.3	-	103.9	266.1	24.6	-	90.0	118.5	-	129.7	7.6
2004	691.6	-	91.0	237.1	22.6	-	96.0	112.4	-	121.1	11.3
2005	691.4	-	89.7	257.2	19.3	-	93.3	114.2	-	111.2	6.4
2006	696.1	-	93.3	250.2	19.1	-	90.0	116.4	-	117.3	9.7
2007	702.4	-	95.4	275.8	18.8	16.0	72.4	103.0	-	114.9	6.1
2008	701.0	24.3	82.3	293.2	23.3	11.1	83.8	103.5	-	73.0	6.5
2009	698.3	56.5	86.9	271.4	20.5	9.8	90.6	119.5	-	37.3	5.6
2010	812.9	58.0	104.7	307.4	22.9	12.1	106.6	150.7	-	43.2	7.2
2011	837.6	69.8	100.0	322.3	21.9	14.9	114.8	137.2	-	49.6	7.1
2012	842.9	63.2	107.2	318.0	17.9	17.3	114.3	145.3	-	51.9	7.9
2013	907.3	84.5	108.1	366.4	22.4	14.8	131.2	145.6	-	25.2	9.1
2014	877.0	67.8	98.1	329.0	19.9	13.6	128.9	184.8	-	26.4	8.3
2015	882.6	60.2	103.4	337.4	23.1	13.4	127.6	192.2	-	21.7	3.5
2016	855.4	50.1	82.9	336.0	16.5	13.8	136.6	197.2	-	19.8	2.6
2017	871.4	52.2	101.8	350.7	17.8	14.1	121.7	187.7	-	19.8	5.6
2018	844.9	46.5	79.0	320.0	18.2	12.6	151.8	198.8	-	12.5	5.4
2019	863.4	47.9	85.3	357.7	19.3	10.4	131.9	190.7	-	13.9	6.1
2020 ⁵	1,049.5	50.7	70.0	406.6	28.8	32.2	158.7	284.3	-	10.9	7.3
2021 ⁶	1,040.7	26.2	54.2	338.9	48.3	17.6	150.7	370.2	-	13.2	21.4
2022 ⁶	1,060.3	23.8	47.0	387.5	21.1	19.6	166.8	367.5	-	19.6	7.3
2023	1,111.7	36.4	55.6	404.6	16.1	14.5	171.1	387.4	-	22.2	3.9

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the International Standard Classification of Education (ISCED)

² Jumlah termasuk angka sijil tertinggi diperolehi *tidak diketahui*

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/pondok school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, W.P. Labuan, 1984–2023

Table 7: Labour force by highest certificate obtained, W.P. Labuan, 1984–2023

Tahun Year	('000)										
	Jumlah ² Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Sijil agama ⁴ Religious certificate	Tiada sijil No certificate	Tidak berkenaan Not applicable
1984	17.3	-	2.4	2.3	0.1	-	0.3	0.4	0.0	9.9	1.9
1985	16.3	-	2.4	2.3	0.2	-	0.3	0.4	0.0	8.9	1.9
1986	15.3	-	2.2	2.5	0.2	-	0.3	0.3	0.0	8.5	1.4
1987	13.6	-	1.9	2.2	0.2	-	0.2	0.4	0.0	7.3	1.3
1988	13.8	-	2.0	2.7	0.2	-	0.2	0.3	0.0	7.3	1.2
1989	14.7	-	2.1	2.8	0.2	-	0.2	0.3	0.0	7.5	1.6
1990	15.7	-	2.4	3.0	0.3	-	0.3	0.8	0.1	8.4	0.4
1992	15.4	-	2.3	2.7	0.1	-	0.3	0.3	-	8.8	0.9
1993	18.4	-	4.3	4.4	0.1	-	-	0.7	-	7.5	1.5
1995	32.6	-	4.3	9.2	0.5	-	0.8	1.0	-	14.1	2.6
1996	39.4	-	6.6	7.6	0.8	-	0.8	1.2	-	20.4	1.9
1997	35.9	-	4.9	9.7	1.3	-	1.2	1.3	-	14.5	3.1
1998	37.9	-	5.5	11.0	1.1	-	1.1	1.1	-	16.4	1.7
1999	42.9	-	5.8	10.5	0.3	-	1.8	1.0	-	20.8	2.7
2000	26.7	-	3.4	8.6	1.4	-	1.0	0.2	-	10.8	1.2
2001	28.7	-	4.4	9.7	0.6	-	0.7	1.3	-	10.6	1.4
2002	34.0	-	5.9	10.1	1.1	-	1.9	1.6	-	11.4	2.1
2003	33.3	-	4.1	11.2	1.1	-	2.1	1.7	-	12.1	1.0
2004	34.0	-	3.7	9.9	0.8	-	2.2	2.5	-	12.0	2.8
2005	32.2	-	4.7	11.0	0.8	-	1.5	1.8	-	9.8	2.6
2006	33.7	-	5.6	11.0	1.3	-	1.8	1.4	-	10.8	1.8
2007	34.1	-	6.5	10.3	1.6	0.4	1.1	2.1	-	8.9	3.0
2008	34.5	5.4	5.1	11.9	1.4	0.6	1.6	2.1	-	2.3	4.0
2009	37.6	5.0	6.4	12.6	1.3	0.9	2.7	3.1	-	2.7	2.9
2010	40.0	5.1	6.4	15.7	2.0	1.8	3.5	2.9	-	1.6	1.0
2011	40.3	5.3	5.4	15.0	2.1	2.0	3.3	3.8	-	1.9	1.6
2012	41.3	5.4	6.0	14.5	1.8	2.1	4.1	4.1	-	1.6	1.5
2013	41.8	4.8	5.2	16.3	2.1	2.2	3.8	4.5	-	1.8	1.3
2014	43.0	5.2	6.7	17.5	1.6	1.6	3.6	3.5	-	1.8	1.5
2015	41.5	4.1	7.0	16.8	2.2	1.4	4.1	3.3	-	1.2	1.5
2016	43.6	4.2	5.5	18.1	1.6	1.9	5.0	4.6	-	1.4	1.3
2017	42.0	3.8	6.7	17.7	1.7	1.4	4.5	3.7	-	1.4	1.3
2018	44.6	4.2	5.1	19.6	2.5	2.0	5.0	4.0	-	1.1	1.1
2019	43.3	3.4	5.1	17.6	2.2	1.9	5.3	4.6	-	1.0	2.3
2020 ⁵	42.6	3.8	3.6	19.2	2.4	1.4	5.0	3.6	-	1.8	1.8
2021 ⁶	44.0	3.2	3.9	18.1	1.4	1.6	5.9	6.7	-	0.8	2.4
2022 ⁶	44.6	2.6	3.8	17.6	2.8	1.8	6.2	6.1	-	1.5	2.2
2023 ⁷	46.5	4.3	4.3	17.9	2.1	1.6	6.7	6.8	-	1.7	1.1

Nota/Notes:

¹ Mulai 2008, sijil tertinggi diperolehi dikelaskan mengikut konsep *International Standard Classification of Education (ISCED)*

Starting 2008, highest certificate obtained is classified according to the International Standard Classification of Education (ISCED)

² Jumlah termasuk angka sijil tertinggi diperolehi "tidak diketahui"

Total includes "unknown" highest certificate obtained

³ Pecahan diploma dan sijil bermula pada tahun 2007

Breakdown of diploma and certificate is available from 2007 onwards

⁴ Berdasarkan Banci Penduduk dan Perumahan 1991, kelas-kelas agama/pondok tidak termasuk dalam istilah pendidikan rasmi

Based on Population and Housing Census 1991, religious classes/'pondok' school are excluded from formal education

⁵ Semakan semula berdasarkan anggaran penduduk semasa

Revision based on the current population estimates

Jadual 7: Tenaga buruh mengikut sijil tertinggi diperolehi¹, W.P. Putrajaya, 2011–2023

Table 7: Labour force by highest certificate obtained, W.P. Putrajaya, 2011–2023

Tahun Year	('000)									
	Jumlah Total	UPSR/UPSRA atau yang setaraf UPSR/UPSRA or equivalent	PT3/PMR/SRP/ LCE/SRA atau yang setaraf PT3/PMR/SRP/LCE/ SRA or equivalent	SPM atau yang setaraf SPM or equivalent	STPM atau yang setaraf STPM or equivalent	Sijil ³ Certificate	Diploma Diploma	Ijazah Degree	Tiada sijil No certificate	Tidak berkenaan Not applicable
2011	41.9	0.9	1.0	12.4	2.3	2.1	9.5	12.7	1.0	0.0
2012	40.9	1.1	1.0	12.1	1.9	2.1	10.0	12.2	0.6	-
2013	41.2	1.2	0.8	12.1	2.6	2.1	10.0	11.9	0.4	0.1
2014	40.8	0.7	1.0	13.7	2.2	2.4	9.3	11.4	0.0	-
2015	38.9	0.5	0.8	11.2	2.2	1.8	9.6	12.7	0.0	0.1
2016	38.9	0.8	0.8	10.7	1.4	2.0	10.0	13.0	0.2	-
2017	38.6	0.9	1.0	11.1	1.7	1.4	10.0	12.4	0.0	-
2018	38.9	0.4	1.7	11.4	1.6	1.3	9.7	12.7	0.0	0.0
2019	38.6	1.0	1.1	11.7	2.0	1.0	9.9	11.8	0.1	-
2020 [†]	50.5	0.3	1.5	15.8	2.7	1.5	14.0	14.7		0.0
2021 [†]	53.9	0.1	1.2	18.8	0.8	2.7	14.3	15.5		0.4
2022 [†]	55.8	0.5	1.9	16.1	3.1	1.3	13.4	17.2		2.3
2023	58.6	0.1	1.7	17.0	3.9	1.8	16.4	17.7		0.0

Nota/Notes :

1. Mulai 2011, data tenaga buruh W.P. Putrajaya diterbitkan berasingan daripada negeri Selangor

Starting 2011, labour force data for W.P Putrajaya was published separately from Selangor

2. [†] Semakan semula berdasarkan anggaran penduduk semasa

[†] Revision based on the current population estimates