



Economic modelling of skills demand - State results

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Report by Access Economics Pty Limited for
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1 Introduction

Skills Australia commissioned Access Economics to undertake research and analysis on the future demand for post-school skills and qualifications to 2025. The task involves examination of both the labour supply of skills (demand by prospective students) and the labour demand for skills (demand by industry).

The reporting of projected qualification demand covers both higher education and vocational education and training (VET), and uses the following categories:

- Postgraduate qualifications;
- Undergraduate qualifications;
- Advanced diploma / Diploma;
- Certificate III / Certificate IV; and
- Certificate I / Certificate II.

The **projections are presented within the context of three scenarios** being examined by Skills Australia, termed **open doors, low-trust globalisation** and **flags**.

A report detailing the task, assumptions used and key results at the national level has been provided to Skills Australia. This supplementary paper presents key modelling results at the State/Territory level for each of the scenarios.

The methodology employed is the same as at the national level and readers should consult the main report to Skills Australia for further details.

2 Projected student demand for qualifications

The following tables show projected student enrolment levels and completions levels by qualification by State/Territory under each of the three economic scenarios.

Table 2.1: Projected student enrolment level by scenario – New South Wales

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	64,016	70,634	79,665
Undergraduate	200,026	218,041	238,588
Diploma/Advanced Dip.	49,297	54,364	60,620
Certificate III/IV	211,248	230,272	255,716
Certificate I/II	138,781	150,916	168,478
Total	663,367	724,227	803,067
Low-trust globalisation			
Postgraduate	63,308	68,372	75,069
Undergraduate	195,851	208,339	222,946
Diploma/Advanced Dip.	48,400	52,089	56,645
Certificate III/IV	207,755	221,571	240,317
Certificate I/II	136,558	145,604	159,004
Total	651,873	695,975	753,981
Flags			
Postgraduate	61,119	63,350	66,651
Undergraduate	187,713	191,227	197,513
Diploma/Advanced Dip.	46,605	48,040	50,220
Certificate III/IV	201,061	206,284	215,494
Certificate I/II	132,519	136,568	144,103
Total	629,016	645,469	673,981

Source: Access Economics

Table 2.2: Projected student completion level by scenario – New South Wales

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	19,700	21,756	24,511
Undergraduate	44,513	49,027	53,525
Diploma/Advanced Dip.	15,575	17,266	19,310
Certificate III/IV	59,904	65,753	73,251
Certificate I/II	28,549	31,121	34,650
Total	168,241	184,924	205,246
Low-trust globalisation			
Postgraduate	19,471	21,036	23,070
Undergraduate	43,584	46,728	49,850
Diploma/Advanced Dip.	15,292	16,539	18,040
Certificate III/IV	58,912	63,239	68,812
Certificate I/II	28,087	29,997	32,663
Total	165,345	177,540	192,435
Flags			
Postgraduate	18,763	19,443	20,432
Undergraduate	41,694	42,597	43,800
Diploma/Advanced Dip.	14,721	15,242	15,984
Certificate III/IV	56,984	58,802	61,642
Certificate I/II	27,230	28,066	29,518
Total	159,393	164,149	171,377

Source: Access Economics

Table 2.3: Projected student enrolment level by scenario - Victoria

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	50,581	55,837	62,903
Undergraduate	154,959	167,778	184,679
Diploma/Advanced Dip.	68,416	74,981	83,758
Certificate III/IV	196,235	213,669	239,084
Certificate I/II	110,039	119,784	136,264
Total	580,231	632,049	706,687
Low-trust globalisation			
Postgraduate	50,034	54,118	59,404
Undergraduate	151,759	160,466	172,837
Diploma/Advanced Dip.	67,226	72,050	78,598
Certificate III/IV	193,032	205,812	225,093
Certificate I/II	108,289	115,658	128,832
Total	570,340	608,103	664,765
Flags			
Postgraduate	48,288	50,253	52,961
Undergraduate	145,467	147,544	153,588
Diploma/Advanced Dip.	64,889	66,888	70,326
Certificate III/IV	186,843	191,987	202,588
Certificate I/II	105,082	108,628	117,185
Total	550,569	565,300	596,649

Source: Access Economics

Table 2.4: Projected student completion level by scenario - Victoria

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	15,568	17,185	19,333
Undergraduate	34,786	37,937	41,405
Diploma/Advanced Dip.	16,758	18,455	20,640
Certificate III/IV	55,006	60,259	67,552
Certificate I/II	22,165	24,160	27,359
Total	144,282	157,996	176,290
Low-trust globalisation			
Postgraduate	15,392	16,640	18,239
Undergraduate	34,072	36,202	38,625
Diploma/Advanced Dip.	16,467	17,727	19,361
Certificate III/IV	54,109	58,021	63,575
Certificate I/II	21,810	23,307	25,837
Total	141,851	151,897	165,638
Flags			
Postgraduate	14,832	15,416	16,223
Undergraduate	32,609	33,080	34,050
Diploma/Advanced Dip.	15,889	16,439	17,306
Certificate III/IV	52,354	54,063	57,166
Certificate I/II	21,147	21,840	23,436
Total	136,830	140,838	148,181

Source: Access Economics

Table 2.5: Projected student enrolment level by scenario - Queensland

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	41,421	47,821	55,902
Undergraduate	132,845	150,440	170,619
Diploma/Advanced Dip.	37,459	42,834	49,794
Certificate III/IV	176,179	200,030	230,979
Certificate I/II	59,221	67,031	78,445
Total	447,125	508,155	585,740
Low-trust globalisation			
Postgraduate	40,988	46,425	52,977
Undergraduate	130,282	144,378	160,537
Diploma/Advanced Dip.	36,923	41,392	47,044
Certificate III/IV	173,464	193,134	218,353
Certificate I/II	58,334	64,867	74,439
Total	439,991	490,196	553,349
Flags			
Postgraduate	39,662	43,344	47,682
Undergraduate	125,361	133,882	144,463
Diploma/Advanced Dip.	35,849	38,829	42,644
Certificate III/IV	168,311	181,198	198,379
Certificate I/II	56,743	61,250	68,277
Total	425,927	458,502	501,445

Source: Access Economics

Table 2.6: Projected student completion level by scenario - Queensland

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	12,756	14,740	17,205
Undergraduate	29,384	33,729	38,034
Diploma/Advanced Dip.	6,261	7,218	8,399
Certificate III/IV	23,705	27,203	31,434
Certificate I/II	14,020	15,913	18,558
Total	86,126	98,802	113,631
Low-trust globalisation			
Postgraduate	12,616	14,295	16,286
Undergraduate	28,817	32,303	35,685
Diploma/Advanced Dip.	6,171	6,970	7,929
Certificate III/IV	23,335	26,236	29,679
Certificate I/II	13,809	15,389	17,595
Total	84,748	95,192	107,174
Flags			
Postgraduate	12,194	13,324	14,636
Undergraduate	27,678	29,779	31,882
Diploma/Advanced Dip.	5,988	6,527	7,176
Certificate III/IV	22,618	24,551	26,896
Certificate I/II	13,424	14,507	16,108
Total	81,902	88,688	96,699

Source: Access Economics

Table 2.7: Projected student enrolment level by scenario – South Australia

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	14,203	15,343	16,935
Undergraduate	44,579	47,077	50,025
Diploma/Advanced Dip.	9,669	10,356	11,304
Certificate III/IV	40,600	43,022	46,689
Certificate I/II	28,483	30,029	33,088
Total	137,534	145,827	158,042
Low-trust globalisation			
Postgraduate	14,061	14,910	16,059
Undergraduate	43,722	45,203	47,039
Diploma/Advanced Dip.	9,532	10,007	10,668
Certificate III/IV	39,980	41,567	44,134
Certificate I/II	28,063	29,080	31,400
Total	135,358	140,767	149,299
Flags			
Postgraduate	13,581	13,910	14,435
Undergraduate	42,050	41,936	42,241
Diploma/Advanced Dip.	9,245	9,375	9,634
Certificate III/IV	38,796	39,040	40,073
Certificate I/II	27,304	27,487	28,792
Total	130,976	131,749	135,174

Source: Access Economics

Table 2.8: Projected student completion level by scenario – South Australia

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	4,369	4,721	5,202
Undergraduate	9,936	10,612	11,209
Diploma/Advanced Dip.	4,230	4,552	4,981
Certificate III/IV	14,305	15,258	16,602
Certificate I/II	7,282	7,692	8,446
Total	40,121	42,835	46,440
Low-trust globalisation			
Postgraduate	4,321	4,580	4,924
Undergraduate	9,747	10,170	10,511
Diploma/Advanced Dip.	4,170	4,398	4,701
Certificate III/IV	14,087	14,737	15,689
Certificate I/II	7,174	7,443	8,007
Total	39,498	41,328	43,833
Flags			
Postgraduate	4,169	4,267	4,421
Undergraduate	9,357	9,381	9,374
Diploma/Advanced Dip.	4,045	4,121	4,247
Certificate III/IV	13,667	13,835	14,245
Certificate I/II	6,976	7,026	7,331
Total	38,215	38,631	39,617

Source: Access Economics

Table 2.9: Projected student enrolment level by scenario – Western Australia

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	21,758	25,108	29,253
Undergraduate	69,011	77,277	86,484
Diploma/Advanced Dip.	17,189	19,585	22,533
Certificate III/IV	76,758	86,440	99,087
Certificate I/II	54,625	61,070	71,253
Total	239,342	269,481	308,611
Low-trust globalisation			
Postgraduate	21,428	24,156	27,395
Undergraduate	67,257	73,422	80,331
Diploma/Advanced Dip.	16,825	18,704	20,978
Certificate III/IV	75,191	82,736	92,602
Certificate I/II	53,551	58,623	66,904
Total	234,252	257,641	288,210
Flags			
Postgraduate	20,501	22,101	24,002
Undergraduate	63,774	66,526	70,197
Diploma/Advanced Dip.	16,089	17,108	18,426
Certificate III/IV	72,091	76,079	81,947
Certificate I/II	51,522	54,340	59,917
Total	223,977	236,154	254,488

Source: Access Economics

Table 2.10: Projected student completion level by scenario – Western Australia

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	6,706	7,741	9,001
Undergraduate	15,453	17,544	19,456
Diploma/Advanced Dip.	4,795	5,497	6,332
Certificate III/IV	23,402	26,546	30,483
Certificate I/II	14,363	16,096	18,701
Total	64,718	73,424	83,973
Low-trust globalisation			
Postgraduate	6,600	7,440	8,421
Undergraduate	15,058	16,625	18,009
Diploma/Advanced Dip.	4,694	5,247	5,893
Certificate III/IV	22,923	25,398	28,479
Certificate I/II	14,079	15,440	17,544
Total	63,353	70,149	78,346
Flags			
Postgraduate	6,311	6,797	7,366
Undergraduate	14,242	14,952	15,600
Diploma/Advanced Dip.	4,487	4,795	5,173
Certificate III/IV	21,972	23,332	25,184
Certificate I/II	13,538	14,287	15,680
Total	60,550	64,162	69,002

Source: Access Economics

Table 2.11: Projected student enrolment level by scenario - Tasmania

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	3,961	4,088	4,316
Undergraduate	12,586	12,676	12,997
Diploma/Advanced Dip.	4,466	4,567	4,815
Certificate III/IV	22,540	22,850	24,020
Certificate I/II	13,904	14,065	15,312
Total	57,456	58,245	61,459
Low-trust globalisation			
Postgraduate	3,952	4,040	4,194
Undergraduate	12,479	12,417	12,551
Diploma/Advanced Dip.	4,444	4,499	4,663
Certificate III/IV	22,391	22,456	23,247
Certificate I/II	13,808	13,827	14,846
Total	57,075	57,240	59,501
Flags			
Postgraduate	3,885	3,913	3,971
Undergraduate	12,303	12,040	11,936
Diploma/Advanced Dip.	4,404	4,391	4,448
Certificate III/IV	22,161	21,894	22,202
Certificate I/II	13,677	13,513	14,245
Total	56,429	55,750	56,803

Source: Access Economics

Table 2.12: Projected student completion level by scenario - Tasmania

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	1,213	1,251	1,318
Undergraduate	2,689	2,737	2,740
Diploma/Advanced Dip.	1,114	1,146	1,205
Certificate III/IV	5,319	5,430	5,695
Certificate I/II	2,582	2,618	2,823
Total	12,918	13,182	13,783
Low-trust globalisation			
Postgraduate	1,211	1,238	1,281
Undergraduate	2,670	2,682	2,644
Diploma/Advanced Dip.	1,110	1,129	1,168
Certificate III/IV	5,287	5,339	5,514
Certificate I/II	2,566	2,575	2,738
Total	12,844	12,963	13,345
Flags			
Postgraduate	1,189	1,196	1,211
Undergraduate	2,631	2,596	2,507
Diploma/Advanced Dip.	1,100	1,103	1,114
Certificate III/IV	5,233	5,205	5,267
Certificate I/II	2,541	2,514	2,624
Total	12,693	12,614	12,723

Source: Access Economics

Table 2.13: Projected student enrolment level by scenario - NT

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	2,336	2,597	2,930
Undergraduate	7,499	8,202	9,041
Diploma/Advanced Dip.	742	822	927
Certificate III/IV	10,918	11,986	13,346
Certificate I/II	11,943	13,169	14,642
Total	33,439	36,777	40,887
Low-trust globalisation			
Postgraduate	2,323	2,547	2,812
Undergraduate	7,401	7,960	8,617
Diploma/Advanced Dip.	737	805	890
Certificate III/IV	10,803	11,682	12,764
Certificate I/II	11,817	12,852	14,042
Total	33,082	35,846	39,125
Flags			
Postgraduate	2,263	2,421	2,593
Undergraduate	7,219	7,556	7,972
Diploma/Advanced Dip.	724	774	831
Certificate III/IV	10,598	11,185	11,893
Certificate I/II	11,607	12,362	13,173
Total	32,412	34,298	36,461

Source: Access Economics

Table 2.14: Projected student completion level by scenario - NT

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	723	805	907
Undergraduate	1,721	1,896	2,104
Diploma/Advanced Dip.	203	225	256
Certificate III/IV	1,472	1,630	1,826
Certificate I/II	1,329	1,472	1,639
Total	5,447	6,028	6,732
Low-trust globalisation			
Postgraduate	717	786	868
Undergraduate	1,701	1,840	2,005
Diploma/Advanced Dip.	201	221	245
Certificate III/IV	1,455	1,585	1,744
Certificate I/II	1,314	1,433	1,568
Total	5,388	5,864	6,430
Flags			
Postgraduate	699	747	800
Undergraduate	1,658	1,740	1,845
Diploma/Advanced Dip.	198	212	229
Certificate III/IV	1,428	1,516	1,623
Certificate I/II	1,292	1,376	1,467
Total	5,275	5,591	5,964

Source: Access Economics

Table 2.15: Projected student enrolment level by scenario - ACT

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	3,459	3,689	4,070
Undergraduate	10,313	10,749	11,860
Diploma/Advanced Dip.	6,692	7,134	7,920
Certificate III/IV	10,331	10,928	12,194
Certificate I/II	3,299	3,507	4,015
Total	34,095	36,007	40,059
Low-trust globalisation			
Postgraduate	3,446	3,634	3,931
Undergraduate	10,214	10,480	11,364
Diploma/Advanced Dip.	6,643	6,987	7,613
Certificate III/IV	10,253	10,703	11,733
Certificate I/II	3,273	3,437	3,872
Total	33,829	35,242	38,513
Flags			
Postgraduate	3,399	3,520	3,703
Undergraduate	10,046	10,070	10,639
Diploma/Advanced Dip.	6,559	6,759	7,170
Certificate III/IV	10,127	10,363	11,069
Certificate I/II	3,234	3,338	3,675
Total	33,365	34,051	36,255

Source: Access Economics

Table 2.16: Projected student completion level by scenario - ACT

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	1,066	1,134	1,250
Undergraduate	2,408	2,498	2,717
Diploma/Advanced Dip.	1,592	1,699	1,886
Certificate III/IV	4,437	4,711	5,267
Certificate I/II	1,818	1,929	2,202
Total	11,322	11,972	13,322
Low-trust globalisation			
Postgraduate	1,062	1,118	1,208
Undergraduate	2,386	2,433	2,597
Diploma/Advanced Dip.	1,581	1,665	1,814
Certificate III/IV	4,405	4,616	5,069
Certificate I/II	1,804	1,892	2,123
Total	11,239	11,724	12,812
Flags			
Postgraduate	1,047	1,080	1,135
Undergraduate	2,347	2,332	2,420
Diploma/Advanced Dip.	1,561	1,610	1,707
Certificate III/IV	4,352	4,469	4,783
Certificate I/II	1,782	1,836	2,014
Total	11,089	11,327	12,059

Source: Access Economics

3 Employment projections

The following tables show projected employment growth rates by both industry and occupation by State/Territory under each of the three economic scenarios.

Table 3.1: Employment growth by industry, 1 digit ANZSIC – New South Wales

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Agriculture, Forestry and Fishing	0.9%	-0.4%	-2.0%
Mining	0.4%	-0.2%	-1.6%
Manufacturing	-0.5%	-1.5%	1.9%
Electricity, Gas, Water and Waste Services	-0.4%	-0.8%	2.7%
Construction	1.4%	0.7%	0.2%
Wholesale Trade	0.9%	-0.1%	-1.5%
Retail Trade	2.0%	1.4%	0.3%
Accommodation and Food Services	2.0%	1.3%	0.2%
Transport, Postal and Warehousing	2.7%	2.0%	0.8%
Information Media and Telecommunications	2.1%	1.4%	0.7%
Financial and Insurance Services	1.9%	1.2%	0.1%
Rental, Hiring and Real Estate Services	2.6%	1.9%	0.8%
Professional, Scientific and Technical Services	2.8%	2.2%	1.0%
Administrative and Support Services	2.4%	1.8%	0.7%
Public Administration and Safety	2.6%	1.9%	0.8%
Education and Training	2.0%	1.2%	0.7%
Health Care and Social Assistance	2.7%	2.1%	1.0%
Arts and Recreation Services	2.1%	1.5%	-0.6%
Other Services	1.6%	1.0%	0.0%
Total	1.9%	1.2%	0.6%

Source: Access Economics

Table 3.2: Employment growth by occupation, 1 digit ANZSCO – New South Wales

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Managers	1.8%	1.0%	0.4%
Professionals	2.1%	1.5%	0.7%
Technicians and Trades Workers	1.5%	0.7%	0.5%
Community and Personal Service Workers	2.0%	1.4%	0.6%
Clerical and Administrative Workers	2.0%	1.4%	0.5%
Sales Workers	2.2%	1.5%	0.6%
Machinery Operators And Drivers	1.6%	0.8%	0.5%
Labourers	1.6%	0.9%	0.6%
Total	1.9%	1.2%	0.6%

Source: Access Economics

Table 3.3: Employment growth by industry, 1 digit ANZSIC – Victoria

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Agriculture, Forestry and Fishing	1.0%	-0.2%	-2.0%
Mining	3.6%	2.1%	0.0%
Manufacturing	-0.4%	-1.3%	2.0%
Electricity, Gas, Water and Waste Services	-0.4%	-0.7%	2.9%
Construction	1.7%	0.9%	0.3%
Wholesale Trade	1.0%	0.1%	-1.4%
Retail Trade	2.2%	1.7%	0.4%
Accommodation and Food Services	2.2%	1.6%	0.3%
Transport, Postal and Warehousing	3.0%	2.3%	1.0%
Information Media and Telecommunications	2.2%	1.5%	0.9%
Financial and Insurance Services	2.2%	1.6%	0.3%
Rental, Hiring and Real Estate Services	2.8%	2.2%	1.0%
Professional, Scientific and Technical Services	3.0%	2.4%	1.2%
Administrative and Support Services	2.6%	2.0%	0.8%
Public Administration and Safety	2.8%	2.2%	0.9%
Education and Training	2.2%	1.5%	0.8%
Health Care and Social Assistance	2.9%	2.4%	1.2%
Arts and Recreation Services	2.3%	1.7%	-0.5%
Other Services	1.8%	1.1%	0.1%
Total	2.0%	1.4%	0.8%

Source: Access Economics

Table 3.4: Employment growth by occupation, 1 digit ANZSCO – Victoria

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Managers	1.9%	1.1%	0.5%
Professionals	2.3%	1.6%	0.9%
Technicians and Trades Workers	1.6%	0.9%	0.7%
Community and Personal Service Workers	2.3%	1.6%	0.7%
Clerical and Administrative Workers	2.2%	1.6%	0.7%
Sales Workers	2.3%	1.7%	0.6%
Machinery Operators And Drivers	1.7%	1.0%	0.9%
Labourers	1.7%	1.0%	0.9%
Total	2.0%	1.4%	0.8%

Source: Access Economics

Table 3.5: Employment growth by industry, 1 digit ANZSIC – Queensland

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Agriculture, Forestry and Fishing	1.7%	0.4%	-1.2%
Mining	0.8%	0.5%	-0.7%
Manufacturing	0.8%	-0.2%	3.2%
Electricity, Gas, Water and Waste Services	0.1%	-0.1%	4.0%
Construction	2.3%	1.6%	1.1%
Wholesale Trade	1.9%	0.9%	-0.5%
Retail Trade	2.8%	2.3%	1.2%
Accommodation and Food Services	2.8%	2.2%	1.1%
Transport, Postal and Warehousing	3.5%	2.8%	1.7%
Information Media and Telecommunications	3.0%	2.4%	1.8%
Financial and Insurance Services	3.3%	2.6%	1.5%
Rental, Hiring and Real Estate Services	3.4%	2.8%	1.7%
Professional, Scientific and Technical Services	3.6%	3.0%	1.9%
Administrative and Support Services	3.2%	2.6%	1.6%
Public Administration and Safety	3.5%	2.9%	1.7%
Education and Training	2.8%	2.1%	1.6%
Health Care and Social Assistance	3.6%	3.1%	2.0%
Arts and Recreation Services	3.0%	2.4%	0.3%
Other Services	2.5%	1.9%	1.0%
Total	2.7%	2.1%	1.5%

Source: Access Economics

Table 3.6: Employment growth by occupation, 1 digit ANZSCO – Queensland

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Managers	2.6%	1.9%	1.3%
Professionals	3.1%	2.4%	1.7%
Technicians and Trades Workers	2.2%	1.6%	1.5%
Community and Personal Service Workers	2.9%	2.3%	1.5%
Clerical and Administrative Workers	2.8%	2.2%	1.5%
Sales Workers	3.0%	2.4%	1.5%
Machinery Operators And Drivers	2.5%	1.8%	1.6%
Labourers	2.7%	2.0%	1.8%
Total	2.7%	2.1%	1.5%

Source: Access Economics

Table 3.7: Employment growth by industry, 1 digit ANZSIC – South Australia

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Agriculture, Forestry and Fishing	0.4%	-0.8%	-2.5%
Mining	1.1%	0.3%	-0.9%
Manufacturing	-0.7%	-1.5%	1.9%
Electricity, Gas, Water and Waste Services	-1.1%	-1.3%	2.5%
Construction	1.1%	0.5%	-0.2%
Wholesale Trade	0.5%	-0.4%	-1.9%
Retail Trade	1.7%	1.2%	-0.1%
Accommodation and Food Services	1.7%	1.1%	-0.2%
Transport, Postal and Warehousing	2.4%	1.7%	0.4%
Information Media and Telecommunications	1.7%	1.0%	0.6%
Financial and Insurance Services	1.8%	1.2%	-0.1%
Rental, Hiring and Real Estate Services	2.3%	1.7%	0.4%
Professional, Scientific and Technical Services	2.5%	1.9%	0.7%
Administrative and Support Services	2.1%	1.5%	0.3%
Public Administration and Safety	2.2%	1.6%	0.4%
Education and Training	1.7%	1.0%	0.4%
Health Care and Social Assistance	2.4%	1.9%	0.7%
Arts and Recreation Services	1.9%	1.3%	-1.0%
Other Services	1.3%	0.7%	-0.3%
Total	1.5%	0.8%	0.3%

Source: Access Economics

Table 3.8: Employment growth by occupation, 1 digit ANZSCO – South Australia

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Managers	1.2%	0.5%	-0.1%
Professionals	1.9%	1.2%	0.4%
Technicians and Trades Workers	1.0%	0.4%	0.4%
Community and Personal Service Workers	1.7%	1.1%	0.2%
Clerical and Administrative Workers	1.7%	1.1%	0.2%
Sales Workers	1.8%	1.2%	0.1%
Machinery Operators And Drivers	1.3%	0.7%	0.7%
Labourers	1.3%	0.6%	0.7%
Total	1.5%	0.8%	0.3%

Source: Access Economics

Table 3.9: Employment growth by industry, 1 digit ANZSIC – Western Australia

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Agriculture, Forestry and Fishing	1.5%	0.3%	-1.4%
Mining	1.1%	0.7%	-0.4%
Manufacturing	1.2%	0.0%	3.0%
Electricity, Gas, Water and Waste Services	-0.1%	-0.3%	3.7%
Construction	2.2%	1.5%	0.7%
Wholesale Trade	2.0%	0.9%	-0.7%
Retail Trade	2.6%	2.1%	0.9%
Accommodation and Food Services	2.8%	2.1%	0.8%
Transport, Postal and Warehousing	4.0%	3.1%	1.7%
Information Media and Telecommunications	3.2%	2.4%	1.6%
Financial and Insurance Services	3.5%	2.7%	1.4%
Rental, Hiring and Real Estate Services	3.4%	2.8%	1.5%
Professional, Scientific and Technical Services	3.6%	3.0%	1.7%
Administrative and Support Services	3.3%	2.6%	1.4%
Public Administration and Safety	3.3%	2.7%	1.4%
Education and Training	2.7%	2.0%	1.4%
Health Care and Social Assistance	3.4%	2.8%	1.6%
Arts and Recreation Services	3.1%	2.5%	-0.1%
Other Services	2.4%	1.7%	0.7%
Total	2.7%	1.9%	1.3%

Source: Access Economics

Table 3.10: Employment growth by occupation, 1 digit ANZSCO – Western Australia

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Managers	2.6%	1.8%	1.1%
Professionals	2.9%	2.2%	1.3%
Technicians and Trades Workers	2.1%	1.4%	1.2%
Community and Personal Service Workers	3.0%	2.3%	1.3%
Clerical and Administrative Workers	3.0%	2.3%	1.3%
Sales Workers	3.1%	2.4%	1.3%
Machinery Operators And Drivers	2.2%	1.4%	1.0%
Labourers	2.4%	1.7%	1.4%
Total	2.7%	1.9%	1.3%

Source: Access Economics

Table 3.11: Employment growth by industry, 1 digit ANZSIC – Tasmania

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Agriculture, Forestry and Fishing	-0.3%	-1.3%	-2.5%
Mining	0.1%	-0.3%	-1.0%
Manufacturing	-1.5%	-2.2%	1.6%
Electricity, Gas, Water and Waste Services	-2.4%	-2.2%	2.7%
Construction	0.5%	-0.1%	-0.4%
Wholesale Trade	-0.2%	-1.0%	-2.1%
Retail Trade	1.1%	0.7%	-0.1%
Accommodation and Food Services	1.0%	0.5%	-0.3%
Transport, Postal and Warehousing	1.6%	1.0%	0.2%
Information Media and Telecommunications	1.1%	0.6%	0.3%
Financial and Insurance Services	1.2%	0.7%	-0.1%
Rental, Hiring and Real Estate Services	1.5%	1.1%	0.3%
Professional, Scientific and Technical Services	1.8%	1.3%	0.6%
Administrative and Support Services	1.3%	0.9%	0.1%
Public Administration and Safety	1.7%	1.2%	0.3%
Education and Training	1.0%	0.5%	0.2%
Health Care and Social Assistance	1.8%	1.4%	0.7%
Arts and Recreation Services	1.3%	0.9%	-1.2%
Other Services	0.7%	0.2%	-0.5%
Total	0.9%	0.3%	0.1%

Source: Access Economics

Table 3.12: Employment growth by occupation, 1 digit ANZSCO – Tasmania

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Managers	0.6%	0.0%	-0.3%
Professionals	1.2%	0.7%	0.2%
Technicians and Trades Workers	0.4%	-0.1%	0.3%
Community and Personal Service Workers	1.1%	0.6%	0.0%
Clerical and Administrative Workers	1.1%	0.6%	0.0%
Sales Workers	1.1%	0.7%	-0.2%
Machinery Operators And Drivers	0.6%	0.1%	0.2%
Labourers	0.7%	0.1%	0.2%
Total	0.9%	0.3%	0.1%

Source: Access Economics

Table 3.13: Employment growth by industry, 1 digit ANZSIC – NT

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Agriculture, Forestry and Fishing	1.4%	0.0%	-1.3%
Mining	-0.1%	-0.5%	-1.2%
Manufacturing	1.0%	-0.2%	3.1%
Electricity, Gas, Water and Waste Services	-0.4%	-0.7%	3.2%
Construction	1.3%	0.6%	0.6%
Wholesale Trade	1.5%	0.4%	-0.8%
Retail Trade	1.8%	1.4%	0.7%
Accommodation and Food Services	1.8%	1.3%	0.5%
Transport, Postal and Warehousing	2.5%	1.9%	1.0%
Information Media and Telecommunications	2.4%	1.7%	1.0%
Financial and Insurance Services	2.5%	1.7%	0.9%
Rental, Hiring and Real Estate Services	2.5%	1.9%	1.2%
Professional, Scientific and Technical Services	2.8%	2.2%	1.5%
Administrative and Support Services	2.3%	1.7%	1.0%
Public Administration and Safety	2.5%	2.0%	1.2%
Education and Training	1.9%	1.2%	1.1%
Health Care and Social Assistance	2.8%	2.3%	1.6%
Arts and Recreation Services	2.0%	1.6%	-0.3%
Other Services	1.6%	1.0%	0.4%
Total	2.0%	1.4%	1.0%

Source: Access Economics

Table 3.14: Employment growth by occupation, 1 digit ANZSCO – NT

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Managers	2.1%	1.4%	1.0%
Professionals	2.2%	1.7%	1.1%
Technicians and Trades Workers	1.4%	0.8%	0.9%
Community and Personal Service Workers	2.1%	1.6%	1.0%
Clerical and Administrative Workers	2.1%	1.6%	1.0%
Sales Workers	2.3%	1.8%	1.0%
Machinery Operators And Drivers	1.7%	1.0%	1.1%
Labourers	2.0%	1.4%	0.9%
Total	2.0%	1.4%	1.0%

Source: Access Economics

Table 3.15: Employment growth by industry, 1 digit ANZSIC – ACT

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Agriculture, Forestry and Fishing	7.6%	5.2%	3.1%
Mining	12.0%	9.6%	7.4%
Manufacturing	-0.1%	-1.3%	1.7%
Electricity, Gas, Water and Waste Services	-1.2%	-1.4%	2.4%
Construction	0.9%	0.2%	0.1%
Wholesale Trade	0.7%	-0.2%	-1.1%
Retail Trade	1.2%	0.8%	0.2%
Accommodation and Food Services	1.2%	0.7%	0.1%
Transport, Postal and Warehousing	2.1%	1.4%	0.8%
Information Media and Telecommunications	1.7%	1.1%	0.3%
Financial and Insurance Services	1.7%	1.1%	0.5%
Rental, Hiring and Real Estate Services	1.9%	1.4%	0.9%
Professional, Scientific and Technical Services	2.1%	1.6%	1.1%
Administrative and Support Services	1.8%	1.3%	0.7%
Public Administration and Safety	1.7%	1.3%	1.0%
Education and Training	1.4%	0.8%	0.7%
Health Care and Social Assistance	2.4%	1.9%	1.3%
Arts and Recreation Services	1.3%	0.9%	-0.7%
Other Services	1.0%	0.5%	-0.1%
Total	1.6%	1.1%	0.7%

Source: Access Economics

Table 3.16: Employment growth by occupation, 1 digit ANZSCO – ACT

Average annual growth, 15 years to 2025	Open doors	Low-trust	Flags
Managers	1.6%	1.0%	0.8%
Professionals	1.8%	1.3%	0.9%
Technicians and Trades Workers	1.1%	0.5%	0.4%
Community and Personal Service Workers	1.6%	1.1%	0.7%
Clerical and Administrative Workers	1.6%	1.1%	0.6%
Sales Workers	1.7%	1.2%	0.6%
Machinery Operators And Drivers	1.9%	1.1%	0.8%
Labourers	1.6%	1.0%	0.7%
Total	1.6%	1.1%	0.7%

Source: Access Economics

4 Projected labour market demand for qualifications

The following tables show projected labour market demand for qualifications by State/Territory under each of the three economic scenarios. The qualification demand in these tables includes allowance for multiple qualification holders and for replacement demand. These tables are the State/Territory equivalent of the table within the Executive Summary of the main report which reports national labour market demand for qualifications.

Table 4.1: Projected labour market demand for qualifications by scenario – New South Wales

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	33,633	32,760	33,843
Undergraduate	77,673	76,828	79,247
Diploma/Advanced Dip.	42,760	41,932	42,797
Certificate III/IV	55,426	55,378	56,189
Certificate I/II	28,723	29,617	31,765
Total	238,192	236,481	243,789
Low-trust globalisation			
Postgraduate	29,079	27,438	27,060
Undergraduate	66,115	62,998	62,178
Diploma/Advanced Dip.	35,590	33,507	32,620
Certificate III/IV	44,985	42,942	41,698
Certificate I/II	22,625	22,510	23,304
Total	198,368	189,371	186,825
Flags			
Postgraduate	24,255	21,733	20,170
Undergraduate	54,997	49,873	46,453
Diploma/Advanced Dip.	28,991	26,141	24,974
Certificate III/IV	37,766	34,436	31,595
Certificate I/II	17,268	16,791	16,800
Total	163,230	148,936	139,923

Source: Access Economics

Table 4.2: Projected labour market demand for qualifications by scenario – Victoria

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	27,335	27,246	28,793
Undergraduate	62,896	62,480	66,361
Diploma/Advanced Dip.	34,024	33,137	34,612
Certificate III/IV	44,237	44,604	46,581
Certificate I/II	19,946	21,775	24,249
Total	188,357	189,180	200,530
Low-trust globalisation			
Postgraduate	23,694	22,751	23,082
Undergraduate	53,677	51,427	52,454
Diploma/Advanced Dip.	28,448	26,460	27,032
Certificate III/IV	36,045	35,097	35,325
Certificate I/II	15,590	16,628	18,071
Total	157,385	152,319	155,936
Flags			
Postgraduate	19,882	18,016	17,226
Undergraduate	44,394	40,506	39,227
Diploma/Advanced Dip.	23,487	20,946	21,635
Certificate III/IV	30,656	28,623	27,499
Certificate I/II	12,358	13,136	13,928
Total	130,727	121,200	119,477

Source: Access Economics

Table 4.3: Projected labour market demand for qualifications by scenario – Queensland

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	21,711	23,031	25,098
Undergraduate	50,052	53,899	58,649
Diploma/Advanced Dip.	30,439	31,735	34,896
Certificate III/IV	47,023	49,715	53,779
Certificate I/II	21,182	23,211	26,520
Total	170,486	181,673	199,043
Low-trust globalisation			
Postgraduate	19,076	19,631	20,591
Undergraduate	43,509	45,385	47,479
Diploma/Advanced Dip.	25,952	26,269	28,111
Certificate III/IV	39,020	40,125	42,105
Certificate I/II	16,953	18,210	20,404
Total	144,587	149,682	158,744
Flags			
Postgraduate	16,326	16,035	16,237
Undergraduate	36,717	36,792	37,061
Diploma/Advanced Dip.	22,379	22,370	23,793
Certificate III/IV	34,117	34,194	34,511
Certificate I/II	14,267	15,323	17,062
Total	123,885	124,769	128,753

Source: Access Economics

Table 4.4: Projected labour market demand for qualifications by scenario – South Australia

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	6,436	6,254	6,414
Undergraduate	15,013	14,529	14,912
Diploma/Advanced Dip.	8,824	8,320	8,388
Certificate III/IV	12,438	11,825	11,972
Certificate I/II	6,149	5,807	6,226
Total	48,874	46,741	47,917
Low-trust globalisation			
Postgraduate	5,546	5,218	5,162
Undergraduate	12,712	11,918	11,728
Diploma/Advanced Dip.	7,378	6,648	6,368
Certificate III/IV	10,047	9,183	8,869
Certificate I/II	4,752	4,260	4,475
Total	40,446	37,229	36,603
Flags			
Postgraduate	4,470	3,941	3,704
Undergraduate	10,167	9,018	8,415
Diploma/Advanced Dip.	5,981	5,134	4,798
Certificate III/IV	9,044	7,934	7,254
Certificate I/II	3,801	3,322	3,491
Total	33,481	29,358	27,671

Source: Access Economics

Table 4.5: Projected labour market demand for qualifications by scenario – Western Australia

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	12,070	12,587	13,678
Undergraduate	27,320	28,626	31,212
Diploma/Advanced Dip.	16,420	16,539	17,909
Certificate III/IV	23,382	24,128	25,997
Certificate I/II	11,855	12,417	13,806
Total	91,084	94,323	102,625
Low-trust globalisation			
Postgraduate	10,506	10,574	11,032
Undergraduate	23,472	23,789	24,923
Diploma/Advanced Dip.	13,769	13,309	14,133
Certificate III/IV	18,900	18,883	19,741
Certificate I/II	9,394	9,374	10,364
Total	76,070	75,944	80,201
Flags			
Postgraduate	8,861	8,429	8,385
Undergraduate	19,286	18,655	18,646
Diploma/Advanced Dip.	11,332	10,619	11,379
Certificate III/IV	15,842	15,424	15,427
Certificate I/II	7,199	6,959	7,665
Total	62,535	60,096	61,520

Source: Access Economics

Table 4.6: Projected labour market demand for qualifications by scenario – Tasmania

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	1,810	1,622	1,569
Undergraduate	3,788	3,453	3,397
Diploma/Advanced Dip.	2,307	2,016	2,043
Certificate III/IV	3,313	2,937	2,939
Certificate I/II	1,484	1,470	1,529
Total	12,703	11,500	11,480
Low-trust globalisation			
Postgraduate	1,598	1,375	1,258
Undergraduate	3,280	2,885	2,706
Diploma/Advanced Dip.	1,955	1,659	1,643
Certificate III/IV	2,731	2,326	2,240
Certificate I/II	1,181	1,130	1,139
Total	10,747	9,377	8,988
Flags			
Postgraduate	1,427	1,164	1,025
Undergraduate	2,888	2,431	2,188
Diploma/Advanced Dip.	1,685	1,436	1,385
Certificate III/IV	2,550	2,100	1,911
Certificate I/II	1,026	946	928
Total	9,579	8,079	7,441

Source: Access Economics

Table 4.7: Projected labour market demand for qualifications by scenario – NT

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	1,171	1,122	1,143
Undergraduate	2,512	2,449	2,526
Diploma/Advanced Dip.	1,496	1,419	1,505
Certificate III/IV	2,018	1,971	2,098
Certificate I/II	859	939	1,038
Total	8,054	7,899	8,312
Low-trust globalisation			
Postgraduate	1,038	958	931
Undergraduate	2,205	2,076	2,051
Diploma/Advanced Dip.	1,284	1,182	1,230
Certificate III/IV	1,680	1,585	1,635
Certificate I/II	698	742	798
Total	6,904	6,542	6,648
Flags			
Postgraduate	927	817	766
Undergraduate	1,941	1,760	1,670
Diploma/Advanced Dip.	1,116	1,022	1,036
Certificate III/IV	1,519	1,379	1,356
Certificate I/II	602	617	646
Total	6,104	5,596	5,475

Source: Access Economics

Table 4.8: Projected labour market demand for qualifications by scenario – ACT

Average, 5 years to:	2015	2020	2025
Open doors			
Postgraduate	2,453	2,328	2,440
Undergraduate	4,983	4,849	5,161
Diploma/Advanced Dip.	2,070	2,032	2,274
Certificate III/IV	2,510	2,613	2,861
Certificate I/II	1,001	1,204	1,379
Total	12,994	13,007	14,098
Low-trust globalisation			
Postgraduate	2,166	1,984	1,986
Undergraduate	4,363	4,114	4,198
Diploma/Advanced Dip.	1,748	1,678	1,865
Certificate III/IV	2,112	2,130	2,264
Certificate I/II	805	961	1,077
Total	11,173	10,853	11,383
Flags			
Postgraduate	2,014	1,784	1,733
Undergraduate	4,022	3,702	3,662
Diploma/Advanced Dip.	1,541	1,500	1,604
Certificate III/IV	1,921	1,872	1,925
Certificate I/II	694	809	878
Total	10,176	9,657	9,790

Source: Access Economics