



ATAR Report 2024

Queensland Tertiary Admissions Centre

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1 Introduction

This report provides an overview of the Australian Tertiary Admission Rank (ATAR) calculation for students who completed any Queensland curriculum or VET subject contributing to the ATAR in 2024 and were included as part of the 2024 ATAR scaling process.

The report summarises the data used for ATAR scaling across subjects, the ATAR calculation process, inter-subject scaling outcomes, and the allocation of students to ATAR bands. It is based on the primary dataset as of 10 December 2024, excluding any subsequent amendments. Therefore, this is not intended to be a comprehensive report or an interpretation of the full 2024 ATAR results.

Further information on how Queensland's ATAR are calculated may be found on QTAC's website.

1.1 Definitions

- **Scaling cohort:** The number of students with at least one result at Unit 3 and 4 or a completed VET qualification at Australian Qualification Framework (AQF) level 3 or above in 2024.
- **Raw Results:** The subject result achieved by a student. For General subjects, General Extension or Senior External Examination subjects, raw results have a score out of 100. For Applied subjects, raw results consist of a letter grade, to which QTAC assigns a numeric equivalent (A→90, B→70, C→50, D→30, E→10).
- **Scaled Results:** This term refers to the subject result generated via the scaling process. Scaled results are expressed on a 100 point scale, up to 2 decimal places.
- **Inter-subject scaling:** The process by which raw results are converted to scaled results to allow comparability between subjects.
- **Polyrank:** A measure of the overall ability of a student resulting from a combination of scaled scores. Poly-ranks are expressed on a fine grained numeric scale that enables distinction between students for tertiary selection purposes.
- **Polyrank Percentile Rank:** The percentile rank of polyrank is used as a relative measure of a student's overall ability.
- **TEA:** The Tertiary Entrance Aggregate is the combination of the best 5 scaled scores for each student.
- **ATAR:** The Australian Tertiary Admission Rank is a measure of a student's overall achievement at school whose value indicates students' position relative to the potential Year 12 population in each Australian State and New Zealand. ATARs are expressed on a 2000 point scale from 99.95 (highest) to 0.00, in increments of 0.05. **ATARs** of 30 or less are reported as "30 or below".

2 Data used for the 2024 ATAR scaling

2.1 Eligibility

A total of 57,594 individual students had their results considered as part of the 2024 ATAR scaling calculation. This includes students who have completed subjects prior to their exit year, students resitting previously taken subjects, students taking additional subjects to obtain a new ATAR, and students partially participating in the Queensland education system. Therefore, this figure does not represent the entire Year 12 cohort in Queensland. Among this group, 28,845 or 50.08% were ATAR eligible. Year 12 students who completed their senior years through alternative providers and left school before the end of Year 12 are considered ineligible. Although not directly quantifiable, these students accounted for in a later stage when estimating the size of the potential Year 12 population.

Note that these were the values based on the data available to QTAC at the time of the scaling calculation. As in previous years, the data used for scaling was a significant proportion of the expected total data, meaning that the number of students and subject results not included in the dataset used for scaling are expected to be minimal. However, the final number of ATAR eligible students is likely to be slightly higher than reported here, once the remainder of the data is processed.

2.2 Data used for 2024 ATAR scaling

Table 1 summarises the number of subject results across different subject types considered by QTAC for ATAR scaling in 2024. A total of 275,045 results were included, comprising 164,047 General subjects, 1,538 General External subjects, and 90,668 Applied subjects. Only courses completed within the last 5 years were considered for ATAR. Additionally, 18,406 Vocational Education and Training qualifications (VET) completed at Australian Qualification Framework (AQF) level 3 or higher were included alongside the QCAA subjects.

Tables 2 through 5 provide a detailed breakdown of the number of results included in the 2024 ATAR scaling for each subject type.

Table 1: Number of results by subject type considered for ATAR scaling.

Subject Type	Code	Results	Percentage
Applied	APP	90,668	32.96
General	GEN	164,047	59.64
General Extension	GEX	1,538	0.56
Senior External Examination	SEE	386	0.14
Vocational Education and Training	VET	18,406	6.69
Total		275,045	100.00

Table 2: Number of General and General Extension subject results considered for ATAR scaling.

Code	Subject Name	Results	Percentage
0023	Aboriginal and Torres Strait Islander Studies	59	0.04
0060	Accounting	2,078	1.25
0055	Aerospace Systems	105	0.06
0051	Agricultural Science	447	0.27
0020	Ancient History	2,922	1.76
0042	Biology	13,664	8.25

Table 2 Continued: Number of General and General Extension subject results considered for ATAR scaling.

Code	Subject Name	Results	Percentage
0066	Business	4,348	2.63
0040	Chemistry	8,682	5.24
0011	Chinese	439	0.27
0056	Chinese Extension	33	0.02
0085	Dance	672	0.41
0048	Design	3,234	1.95
0049	Digital Solutions	1,506	0.91
0088	Drama	2,443	1.48
0043	Earth and Environmental Science	315	0.19
0027	Economics	3,604	2.18
0074	Engineering	1,794	1.08
0001	English	27,017	16.32
0002	English and Literature Extension	777	0.47
0003	English as an Additional Language	665	0.40
0093	Film Television and New Media	2,384	1.44
0069	Food and Nutrition	760	0.46
0005	French	608	0.37
0015	French Extension	44	0.03
0052	General Mathematics	20,243	12.23
0024	Geography	2,706	1.63
0006	German	194	0.12
0016	German Extension	45	0.03
0067	Health	2,212	1.34
0008	Italian	118	0.07
0009	Japanese	1,146	0.69
0029	Legal Studies	4,542	2.74
0026	Literature	5,245	3.17
0047	Marine Science	922	0.56
0053	Mathematical Methods	11,079	6.69
0021	Modern History	5,352	3.23
0091	Music	2,075	1.25
0094c	Music Extension (Composition)	185	0.11
0094m	Music Extension (Musicology)	8	0.00
0094p	Music Extension (Performance)	446	0.27
0033	Philosophy and Reason	697	0.42
0068	Physical Education	5,461	3.30
0041	Physics	7,392	4.46

Table 2 Continued: Number of General and General Extension subject results considered for ATAR scaling.

Code	Subject Name	Results	Percentage
0079	Psychology	5,177	3.13
0018	Spanish	180	0.11
0054	Specialist Mathematics	4,066	2.46
0086	Study of Religion	3,766	2.27
0080	Visual Art	3,728	2.25
	Total	165,585	100.00

Table 3: Number of Senior External Examination subject results considered for ATAR scaling.

Code	Subject Name	Results	Percentage
4100	Arabic	30	7.77
4011	Chinese	138	35.75
4001	English	1	0.26
4052	General Mathematics	3	0.78
4007	Indonesian	14	3.63
4013	Korean	60	15.54
4017	Latin	17	4.40
4014	Modern Greek	4	1.04
4019	Polish	6	1.55
4105	Punjabi	17	4.40
4010	Russian	18	4.66
4106	Tamil	4	1.04
4012	Vietnamese	74	19.17
	Total	386	100.00

Table 4: Number of Applied subject results considered for ATAR scaling.

Code	Subject Name	Results	Percentage
6400	Agricultural Practices	866	0.96
6401	Aquatic Practices	3,233	3.57
6410	Arts in Practice	340	0.37
6416	Building and Construction Skills	1,880	2.07
6402	Business Studies	1,279	1.41
6411	Dance in Practice	347	0.38
6412	Drama in Practice	643	0.71
6403	Early Childhood Studies	1,309	1.44

Table 4 Continued: Number of Applied subject results considered for ATAR scaling.

Code	Subject Name	Results	Percentage
6417	Engineering Skills	1,962	2.16
6121	Essential English	18,766	20.70
6140	Essential Mathematics	18,627	20.54
6404	Fashion	607	0.67
6418	Furnishing Skills	3,027	3.34
6405	Hospitality Practices	3,210	3.54
6419	Industrial Graphics Skills	1,216	1.34
6420	Industrial Technology Skills	2,616	2.89
6406	Information and Communication Technology	1,077	1.19
6413	Media Arts in Practice	1,379	1.52
6414	Music in Practice	704	0.78
6408	Religion and Ethics	7,446	8.21
6421	Science in Practice	2,406	2.65
6409	Social and Community Studies	4,036	4.45
6407	Sport and Recreation	8,168	9.01
6422	Tourism	1,425	1.57
6415	Visual Arts in Practice	4,099	4.52
Total		90,668	100.00

Table 5: Number of Vocational Education and Training subject results considered for ATAR scaling.

Code	Qualification Level	Results	Percentage
ADV_DIP	Advanced Diploma	6	0.03
CERTIII	Certificate III	14,403	78.25
CERTIV	Certificate IV	933	5.07
DIPLOMA	Diploma	3,064	16.65
Total		18,406	100.00

3 Inter-subject Scaling

Inter-subject scaling is the process used to map each QCAA senior subject and completed VET qualification to a common scale that reflects how students achieved both within and across subjects. This process aims to represent the relative difficulty of achieving a given score by considering how other students performed in the same subjects, as well as across their overall studies. It enables the ranking of students based on their position within the year's cohort. With this approach, the raw results achieved in different subjects can be compared fairly.

There are 5 categories of subject result for each Applied subject (as shown in Figure 1) and 100 categories of results for each General, General Extension or Senior External Examination subject. Meanwhile, the categories of result for a VET qualification simply represent the completion of either a Certificate III, Certificate IV, Diploma, or Advanced Diploma. Each completed VET qualification level is awarded an independent scaled result.

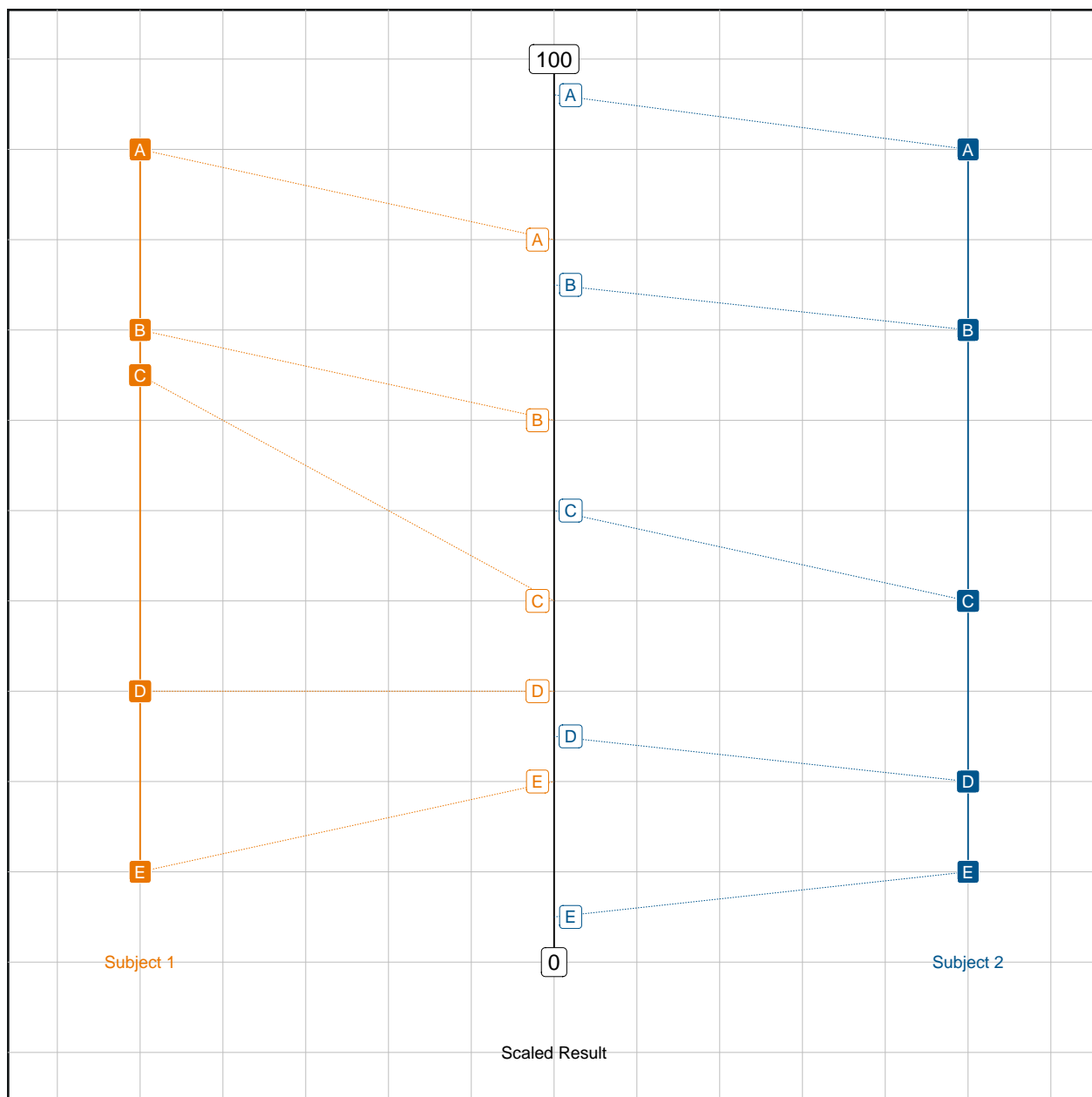


Figure 1: A visual representation of Applied subject scaling.

For the 2024 ATAR scaling, all VET qualifications were automatically grouped and scaled by qualification level, and all Senior External Examination (SEE) subjects were also automatically scaled with their General or General Extension equivalents.

3.1 Scaling Algorithm

The algorithm used in the subject scaling process performs a number of iterations to update and refine scaled results until it reaches a full calibration. The number of iterations used to produce the solution in 2024 was 40, see Figure 2.

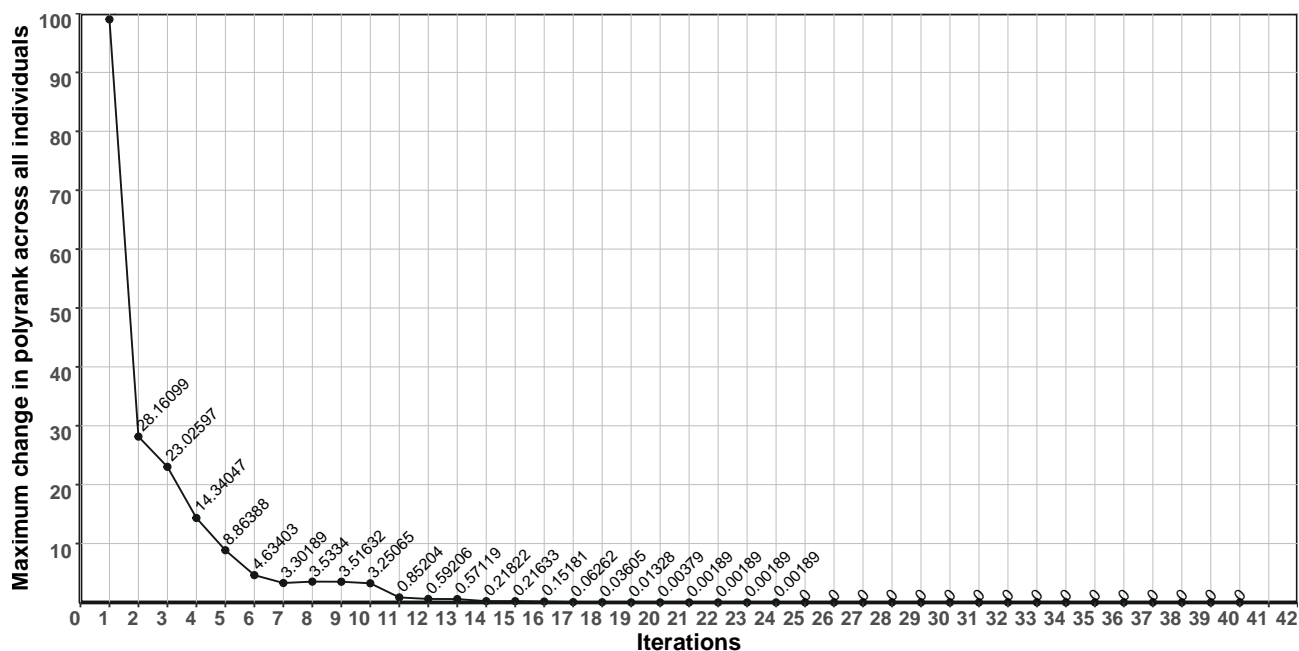


Figure 2: An example of the variation between iterations for a run of the ATAR scaling algorithm.

A more detailed description of the process can be found in “Calculating the ATAR in Queensland” on QTAC’s ATAR dedicated webpage.

3.2 Subject Scaling

Tables 6, 7, 8 and 9 provide the distribution of raw and scaled results for individual subjects in 2024 across subject types.

Table 6: Distribution of raw and scaled results for General subjects. Results of subjects with fewer than 50 students are not reported.

Code	Subject Name	Result	Percentile				
			25th	50th	75th	90th	99th
0023	Aboriginal and Torres Strait Islander Studies	Raw	55	62	75	88	91
		Scaled	15.02	23.98	48.05	73.06	77.66
0060	Accounting	Raw	63	74	85	92	98
		Scaled	65.43	79.25	88.51	92.33	94.64
0055	Aerospace Systems	Raw	56	67	79	88	97
		Scaled	50.20	66.52	80.64	87.89	92.67

Table 6 Continued: Distribution of raw and scaled results for General subjects. Results of subjects with fewer than 50 students are not reported.

Code	Subject Name	Result	Percentile				
			25th	50th	75th	90th	99th
0051	Agricultural Science	Raw	68	77	85	90	93
		Scaled	41.15	58.37	72.23	79.29	82.84
0020	Ancient History	Raw	60	71	83	91	98
		Scaled	49.83	67.22	81.89	88.45	92.39
0042	Biology	Raw	70	80	89	95	99
		Scaled	58.87	76.29	86.96	91.56	93.75
0066	Business	Raw	58	68	79	87	96
		Scaled	49.63	63.16	75.91	83.07	88.98
0040	Chemistry	Raw	76	85	92	95	99
		Scaled	76.74	90.45	95.56	96.83	97.99
0011	Chinese	Raw	84	92	96	98	100
		Scaled	81.25	87.21	89.54	90.55	91.48
0056	Chinese Extension	Raw					
		Scaled					
0085	Dance	Raw	71	81	90	96	100
		Scaled	42.67	56.51	68.21	74.99	78.93
0048	Design	Raw	58	69	82	90	98
		Scaled	48.42	61.67	75.26	81.82	86.94
0049	Digital Solutions	Raw	62	76	87	93	97
		Scaled	60.65	79.35	88.73	92.09	93.80
0088	Drama	Raw	66	78	89	95	100
		Scaled	44.94	63.24	77.32	83.19	87.10
0043	Earth and Environmental Science	Raw	71	78	85	90	95
		Scaled	51.44	66.21	78.38	84.91	89.72
0027	Economics	Raw	66	78	87	93	98
		Scaled	71.30	87.21	93.56	96.01	97.34
0074	Engineering	Raw	63	74	85	92	98
		Scaled	70.03	84.71	92.93	95.79	97.33
0001	English	Raw	59	70	82	91	99
		Scaled	53.05	70.06	83.82	90.38	94.10
0002	English and Literature Extension	Raw	81	89	95	98	100
		Scaled	85.45	91.49	94.42	95.50	96.11

Table 6 Continued: Distribution of raw and scaled results for General subjects. Results of subjects with fewer than 50 students are not reported.

Code	Subject Name	Result	Percentile				
			25th	50th	75th	90th	99th
0003	English as an Additional Language	Raw	59	69	79	89	99
		Scaled	50.20	69.59	83.85	92.18	96.40
0093	Film Television and New Media	Raw	62	73	84	93	100
		Scaled	42.22	56.53	69.82	78.75	84.24
0069	Food and Nutrition	Raw	55	67	79	88	97
		Scaled	44.02	58.24	71.22	79.18	85.40
0005	French	Raw	75	84	92	96	99
		Scaled	88.69	94.73	97.41	98.19	98.62
0015	French Extension	Raw					
		Scaled					
0052	General Mathematics	Raw	60	68	77	85	94
		Scaled	50.49	60.48	70.72	78.37	85.12
0024	Geography	Raw	59	69	79	88	96
		Scaled	56.08	70.98	82.41	89.37	93.39
0006	German	Raw	77	85	91	95	100
		Scaled	86.82	93.46	96.23	97.41	98.39
0016	German Extension	Raw					
		Scaled					
0067	Health	Raw	58	68	80	88	96
		Scaled	46.95	59.78	73.46	80.74	86.38
0008	Italian	Raw	74	82	90	95	98
		Scaled	82.40	89.29	93.69	95.51	96.35
0009	Japanese	Raw	69	81	91	97	100
		Scaled	74.96	86.88	92.77	95.02	95.88
0029	Legal Studies	Raw	57	68	80	89	97
		Scaled	54.74	68.84	81.00	87.47	91.54
0026	Literature	Raw	71	81	90	96	99
		Scaled	72.33	85.47	92.42	95.20	96.20
0047	Marine Science	Raw	65	72	80	86	92
		Scaled	47.32	60.41	73.65	81.49	87.39
0053	Mathematical Methods	Raw	67	78	88	95	100
		Scaled	79.76	89.65	94.66	96.69	97.66

Table 6 Continued: Distribution of raw and scaled results for General subjects. Results of subjects with fewer than 50 students are not reported.

Code	Subject Name	Result	Percentile				
			25th	50th	75th	90th	99th
0021	Modern History	Raw	64	75	86	93	98
		Scaled	56.21	73.41	85.59	90.62	93.19
0091	Music	Raw	70	83	93	97	100
		Scaled	53.97	72.23	82.76	85.98	88.05
0094c	Music Extension (Composition)	Raw	85	95	99	100	100
		Scaled	73.34	83.28	86.33	87.01	87.01
0094m	Music Extension (Musicology)	Raw					
		Scaled					
0094p	Music Extension (Performance)	Raw	84	92	98	99	100
		Scaled	65.65	75.73	81.84	82.73	83.59
0033	Philosophy and Reason	Raw	65	76	87	94	99
		Scaled	69.69	84.01	92.31	95.31	96.73
0068	Physical Education	Raw	61	71	81	89	97
		Scaled	46.46	59.75	71.75	79.60	85.71
0041	Physics	Raw	74	84	92	97	100
		Scaled	73.96	89.64	95.47	97.35	98.09
0079	Psychology	Raw	71	79	87	92	97
		Scaled	55.73	69.92	81.10	86.29	90.23
0018	Spanish	Raw	68	76	86	93	98
		Scaled	71.45	80.57	88.63	92.38	94.32
0054	Specialist Mathematics	Raw	73	83	90	95	99
		Scaled	89.11	95.35	97.50	98.40	98.89
0086	Study of Religion	Raw	67	77	87	93	99
		Scaled	64.68	78.80	88.29	92.02	94.63
0080	Visual Art	Raw	58	71	84	93	100
		Scaled	46.37	62.30	75.96	83.19	87.52

Table 7: Distribution of raw and scaled results for Senior External Examination subjects. Results of subjects with fewer than 50 students are not reported.

Code	Subject Name	Result	Percentile				
			25th	50th	75th	90th	99th
4100	Arabic	Raw					
		Scaled					

Table 7 Continued: Distribution of raw and scaled results for Senior External Examination subjects. Results of subjects with fewer than 50 students are not reported.

Code	Subject Name	Result	Percentile				
			25th	50th	75th	90th	99th
4011	Chinese	Raw	80	88	93	96	99
		Scaled	77.55	84.47	87.83	89.54	91.03
4001	English	Raw					
		Scaled					
4052	General Mathematics	Raw					
		Scaled					
4007	Indonesian	Raw					
		Scaled					
4013	Korean	Raw	68	81	87	92	96
		Scaled	72.58	84.01	87.82	90.37	92.06
4017	Latin	Raw					
		Scaled					
4014	Modern Greek	Raw					
		Scaled					
4019	Polish	Raw					
		Scaled					
4105	Punjabi	Raw					
		Scaled					
4010	Russian	Raw					
		Scaled					
4106	Tamil	Raw					
		Scaled					
4012	Vietnamese	Raw	76	83	90	93	99
		Scaled	65.76	74.37	81.43	83.96	88.17

Table 8: Distribution of raw and scaled results for Applied subjects. Results of subjects with fewer than 50 students are not reported.

Code	Subject Name	Result	Percentile				
			25th	50th	75th	90th	99th
6400	Agricultural Practices	Raw	C	B	B	A	A
		Scaled	8.39	20.58	20.58	42.31	42.31

Table 8 Continued: Distribution of raw and scaled results for Applied subjects. Results of subjects with fewer than 50 students are not reported.

Code	Subject Name	Result	Percentile				
			25th	50th	75th	90th	99th
6401	Aquatic Practices	Raw	C	B	B	A	A
		Scaled	7.77	21.10	21.10	45.91	45.91
6410	Arts in Practice	Raw	C	B	B	A	A
		Scaled	11.59	28.18	28.18	54.03	54.03
6416	Building and Construction Skills	Raw	C	B	B	A	A
		Scaled	6.87	17.57	17.57	38.12	38.12
6402	Business Studies	Raw	C	B	B	A	A
		Scaled	9.74	25.13	25.13	51.07	51.07
6411	Dance in Practice	Raw	C	B	A	A	A
		Scaled	8.52	22.23	46.70	46.70	46.70
6412	Drama in Practice	Raw	C	B	A	A	A
		Scaled	8.76	22.22	45.94	45.94	45.94
6403	Early Childhood Studies	Raw	C	B	B	A	A
		Scaled	10.05	23.09	23.09	44.64	44.64
6417	Engineering Skills	Raw	C	B	B	A	A
		Scaled	7.39	19.89	19.89	43.57	43.57
6121	Essential English	Raw	C	B	B	A	A
		Scaled	9.00	20.62	20.62	40.55	40.55
6140	Essential Mathematics	Raw	C	B	B	A	A
		Scaled	10.29	22.68	22.68	42.88	42.88
6404	Fashion	Raw	C	B	A	A	A
		Scaled	18.68	37.40	60.83	60.83	60.83
6418	Furnishing Skills	Raw	C	B	B	A	A
		Scaled	6.90	20.03	20.03	45.84	45.84
6405	Hospitality Practices	Raw	C	B	B	A	A
		Scaled	11.07	27.57	27.57	53.77	53.77
6419	Industrial Graphics Skills	Raw	C	B	B	A	A
		Scaled	11.43	26.46	26.46	50.09	50.09
6420	Industrial Technology Skills	Raw	C	B	B	A	A
		Scaled	9.99	23.99	23.99	47.28	47.28
6406	Information and Communication Technology	Raw	C	B	B	A	A
		Scaled	11.65	29.57	29.57	57.19	57.19

Table 8 Continued: Distribution of raw and scaled results for Applied subjects. Results of subjects with fewer than 50 students are not reported.

Code	Subject Name	Result	Percentile				
			25th	50th	75th	90th	99th
6413	Media Arts in Practice	Raw	C	B	B	A	A
		Scaled	11.18	28.39	28.39	55.51	55.51
6414	Music in Practice	Raw	C	B	B	A	A
		Scaled	7.43	22.44	22.44	51.05	51.05
6408	Religion and Ethics	Raw	C	B	A	A	A
		Scaled	22.85	50.33	77.61	77.61	77.61
6421	Science in Practice	Raw	C	B	B	A	A
		Scaled	10.15	23.39	23.39	45.20	45.20
6409	Social and Community Studies	Raw	C	B	B	A	A
		Scaled	6.91	20.57	20.57	47.46	47.46
6407	Sport and Recreation	Raw	C	B	B	A	A
		Scaled	7.55	22.24	22.24	50.02	50.02
6422	Tourism	Raw	C	B	B	A	A
		Scaled	9.40	23.83	23.83	48.53	48.53
6415	Visual Arts in Practice	Raw	C	B	B	A	A
		Scaled	10.97	26.82	26.82	52.14	52.14

Table 9: Scaled results for completed VET qualification levels as of ATAR scaling. Results of qualifications with fewer than 50 students are not reported.

Code	Qualification Level	Scaled Result
ADV_DIP	Advanced Diploma	
CERTIII	Certificate III	39.11
CERTIV	Certificate IV	52.02
DIPLOMA	Diploma	59.14

4 ATAR

4.1 Tertiary Entrance Aggregate

The subject scaling outputs are used to measure the students' overall performance and determine their rank order. The Tertiary Entrance Aggregate (TEA) is calculated from students' scaled results, but it is also influenced by policy rules that define:

- the eligibility of a student for a TEA and subsequently, an ATAR, and
- the subject results that should be included in each individual TEA.

4.2 Eligibility Criteria

In order to be eligible for an ATAR, students are required to successfully complete (i.e. be awarded a letter grade of "C" or better) one of the following QCAA English subjects:

- English,
- English as an additional Language,
- Literature,
- English & Literature Extension, or
- Essential English

The TEA and subsequently the ATAR are determined from the best 5 scaled results of each student, provided that these results were attained between 2020 and 2024. The TEA can include either:

- 5 General subjects at units 3 and 4,
- 4 General subjects at units 3 and 4 and 1 Applied subject at Units 3 and 4, or
- 4 General subjects at units 3 and 4 and 1 completed VET qualification at AQF Certificate III level or higher.

Additional rules for TEA composition include restrictions on certain subject combinations, repeated subjects, and cases where students are attempting a new ATAR. A full description of the policy rules is available on the QTAC website.

Table 10 shows the number of students whose data was used for the 2024 ATAR scaling by their ATAR eligibility status. ATAR ineligible students include those who have not accrued enough subjects or met the required subject combination schemes, have an exit year later than 2024, or did not satisfy the English prerequisite or other policy requirements.

Table 10: Number of students by their ATAR eligibility status.

ATAR eligibility	Students	Percentage
Eligible	28,845	50.08
Ineligible	28,749	49.92
Total	57,594	100.00

4.3 Subject Schemes

Table 11 shows the number of students eligible for an ATAR in 2024 by subject combination scheme.

Table 11: Number of ATAR eligible students across different subject schemes as part of ATAR scaling.

Scheme	Number	Percentage
5 General	20,210	70.06
4 General, 1 Applied	4,925	17.07
4 General, 1 VET	3,710	12.86
Total	28,845	100.00

4.4 ATAR Distribution

This section includes a summary of the allocation of ATAR eligible students into bands, according to the participation model used in 2024.

4.4.1 Participation Model

As each state jurisdiction applies different eligibility rules and subject scaling methods, Queensland's scaled results and TEA cannot be compared directly to those of other jurisdictions. Therefore, ATAR is designed as a national standard ranking for tertiary admissions, with ATAR bands providing a basis for comparing overall student achievement across states. To ensure consistency, ATAR calculation is based on the entire potential Year 12 cohort population.

The participation model estimates the achievement of the senior student population within the state wide population. It is defined as a cubic spline function parameterised by the participation rate, which represents the number of ATAR eligible students within each state's or territory's potential participating population. This potential participating population is calculated as the sum of the weighted population estimates for individuals aged 16 to 20. It is used to determine the ATAR band constraint, which dictates the number of students allocated in each band. The ATAR band constraint is defined as the proportion of the potential participation population across the 2000 ATAR bands¹.

For 2024, the Queensland's ATAR band constraint was:

$$\frac{\sum_{a \in [16,20]} W_a}{2000} = \frac{72836}{2000} \approx 36.42$$

where a represents the age group and W_a is the weighted population estimate of ATAR eligible student of age a in Queensland.

Figure 3 shows the participation model used in Queensland in 2024 and the resulting number of students allocated to each ATAR band.

¹For more reference see "Modelling the participation function with a one parameter family of cubic splines" (Harrison & Hyndman, 2015)

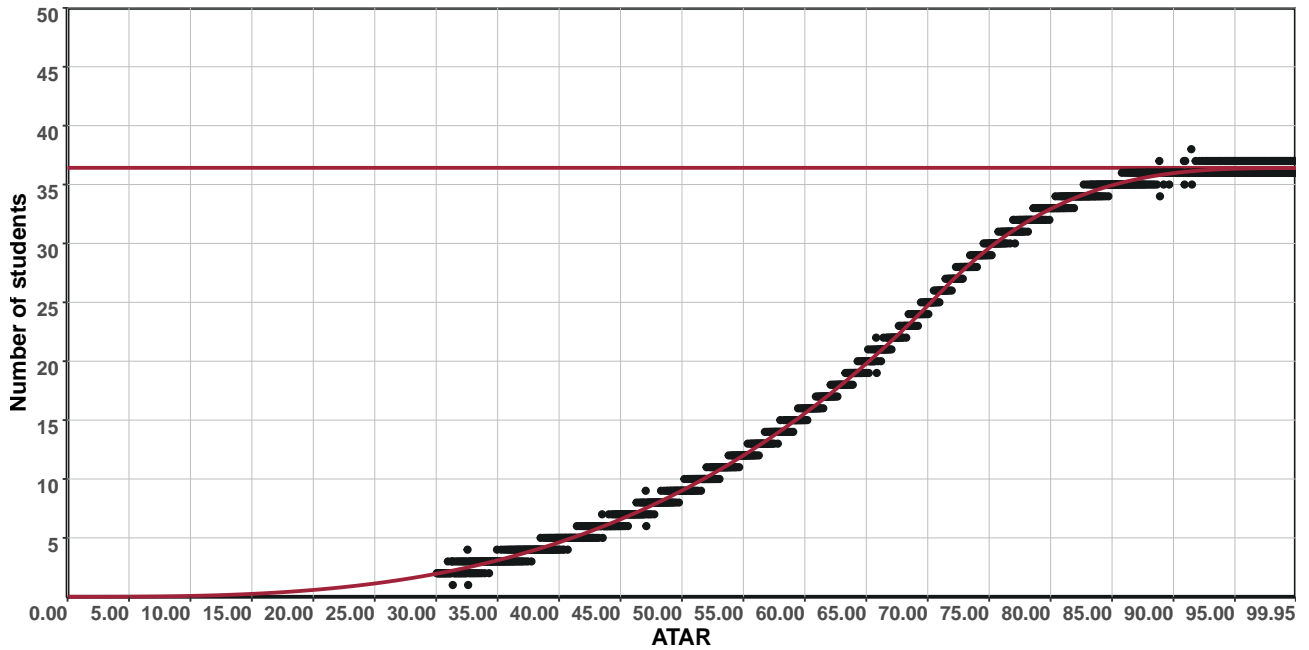


Figure 3: The participation model curve for QLD ATAR eligible students in 2024.

4.4.2 Band Allocation

Table 12 summarises the allocation of students across 200 band intervals. Additionally, the number of students allocated to the first 40 bands (from 98.00 to 99.95) and in 20-band intervals across the overall ATAR distribution are presented in Table 13 and Table 14, respectively.

Out of 28,845 ATAR eligible students, 421 students were reported as having an ATAR of “30 or below”.

Table 12: Number of students in each group of 200 ATAR bands as of ATAR scaling.

ATAR	Students		Cumulative Students	
	Number	Percentage	Number	Percentage
90.00-99.95	7,257	25.16	7,257	25.16
80.00-89.95	6,953	24.10	14,210	49.26
70.00-79.95	5,863	20.33	20,073	69.59
60.00-69.95	3,978	13.79	24,051	83.38
50.00-59.95	2,416	8.38	26,467	91.76
40.00-49.95	1,329	4.61	27,796	96.36
30.05-39.95	628	2.18	28,424	98.54

Table 13: Number of students in each of the top 40 ATAR bands as of ATAR scaling.

ATAR	Students		Cumulative Students	
	Number	Percentage	Number	Percentage
99.95	36	0.12	36	0.12
99.90	36	0.12	72	0.25

Table 13 Continued: Number of students in each of the top 40 ATAR bands as of ATAR scaling.

ATAR	Students		Cumulative Students	
	Number	Percentage	Number	Percentage
99.85	37	0.13	109	0.38
99.80	36	0.12	145	0.50
99.75	37	0.13	182	0.63
99.70	36	0.12	218	0.76
99.65	36	0.12	254	0.88
99.60	37	0.13	291	1.01
99.55	36	0.12	327	1.13
99.50	37	0.13	364	1.26
99.45	36	0.12	400	1.39
99.40	36	0.12	436	1.51
99.35	37	0.13	473	1.64
99.30	36	0.12	509	1.76
99.25	36	0.12	545	1.89
99.20	37	0.13	582	2.02
99.15	36	0.12	618	2.14
99.10	37	0.13	655	2.27
99.05	36	0.12	691	2.40
99.00	36	0.12	727	2.52
98.95	37	0.13	764	2.65
98.90	36	0.12	800	2.77
98.85	37	0.13	837	2.90
98.80	36	0.12	873	3.03
98.75	36	0.12	909	3.15
98.70	37	0.13	946	3.28
98.65	36	0.12	982	3.40
98.60	37	0.13	1,019	3.53
98.55	36	0.12	1,055	3.66
98.50	36	0.12	1,091	3.78
98.45	37	0.13	1,128	3.91
98.40	36	0.12	1,164	4.04
98.35	37	0.13	1,201	4.16
98.30	36	0.12	1,237	4.29
98.25	36	0.12	1,273	4.41
98.20	37	0.13	1,310	4.54
98.15	36	0.12	1,346	4.67
98.10	37	0.13	1,383	4.79

Table 13 Continued: Number of students in each of the top 40 ATAR bands as of ATAR scaling.

ATAR	Students		Cumulative Students	
	Number	Percentage	Number	Percentage
98.05	36	0.12	1,419	4.92
98.00	36	0.12	1,455	5.04

Table 14: Number of students in each 20 band group of overall ATAR bands as of ATAR scaling.

ATAR	Students		Cumulative Students	
	Number	Percentage	Number	Percentage
99.00-99.95	727	2.52	727	2.52
98.00-98.95	728	2.52	1,455	5.04
97.00-97.95	728	2.52	2,183	7.57
96.00-96.95	728	2.52	2,911	10.09
95.00-95.95	727	2.52	3,638	12.61
94.00-94.95	726	2.52	4,364	15.13
93.00-93.95	726	2.52	5,090	17.65
92.00-92.95	724	2.51	5,814	20.16
91.00-91.95	722	2.50	6,536	22.66
90.00-90.95	721	2.50	7,257	25.16
89.00-89.95	718	2.49	7,975	27.65
88.00-88.95	714	2.48	8,689	30.12
87.00-87.95	711	2.46	9,400	32.59
86.00-86.95	707	2.45	10,107	35.04
85.00-85.95	701	2.43	10,808	37.47
84.00-84.95	696	2.41	11,504	39.88
83.00-83.95	688	2.39	12,192	42.27
82.00-82.95	682	2.36	12,874	44.63
81.00-81.95	672	2.33	13,546	46.96
80.00-80.95	664	2.30	14,210	49.26
79.00-79.95	653	2.26	14,863	51.53
78.00-78.95	641	2.22	15,504	53.75
77.00-77.95	628	2.18	16,132	55.93
76.00-76.95	615	2.13	16,747	58.06
75.00-75.95	600	2.08	17,347	60.14
74.00-74.95	583	2.02	17,930	62.16
73.00-73.95	566	1.96	18,496	64.12
72.00-72.95	547	1.90	19,043	66.02

Table 14 Continued: Number of students in each 20 band group of overall ATAR bands as of ATAR scaling.

ATAR	Students		Cumulative Students	
	Number	Percentage	Number	Percentage
71.00-71.95	526	1.82	19,569	67.84
70.00-70.95	504	1.75	20,073	69.59
69.00-69.95	483	1.67	20,556	71.26
68.00-68.95	463	1.61	21,019	72.87
67.00-67.95	443	1.54	21,462	74.40
66.00-66.95	424	1.47	21,886	75.87
65.00-65.95	404	1.40	22,290	77.28
64.00-64.95	387	1.34	22,677	78.62
63.00-63.95	368	1.28	23,045	79.89
62.00-62.95	352	1.22	23,397	81.11
61.00-61.95	335	1.16	23,732	82.27
60.00-60.95	319	1.11	24,051	83.38
59.00-59.95	303	1.05	24,354	84.43
58.00-58.95	289	1.00	24,643	85.43
57.00-57.95	273	0.95	24,916	86.38
56.00-56.95	260	0.90	25,176	87.28
55.00-55.95	246	0.85	25,422	88.13
54.00-54.95	234	0.81	25,656	88.94
53.00-53.95	220	0.76	25,876	89.71
52.00-52.95	209	0.72	26,085	90.43
51.00-51.95	196	0.68	26,281	91.11
50.00-50.95	186	0.64	26,467	91.76
49.00-49.95	175	0.61	26,642	92.36
48.00-48.95	164	0.57	26,806	92.93
47.00-47.95	154	0.53	26,960	93.47
46.00-46.95	145	0.50	27,105	93.97
45.00-45.95	136	0.47	27,241	94.44
44.00-44.95	127	0.44	27,368	94.88
43.00-43.95	118	0.41	27,486	95.29
42.00-42.95	111	0.38	27,597	95.67
41.00-41.95	103	0.36	27,700	96.03
40.00-40.95	96	0.33	27,796	96.36
39.00-39.95	89	0.31	27,885	96.67
38.00-38.95	82	0.28	27,967	96.96
37.00-37.95	76	0.26	28,043	97.22
36.00-36.95	70	0.24	28,113	97.46

Table 14 Continued: Number of students in each 20 band group of overall ATAR bands as of ATAR scaling.

ATAR	Students		Cumulative Students	
	Number	Percentage	Number	Percentage
35.00-35.95	64	0.22	28,177	97.68
34.00-34.95	60	0.21	28,237	97.89
33.00-33.95	54	0.19	28,291	98.08
32.00-32.95	49	0.17	28,340	98.25
31.00-31.95	45	0.16	28,385	98.41
30.05-30.95	39	0.14	28,424	98.54

This report has been prepared by QTAC in accordance with its obligations for delivery of ATAR and reporting of scaling outcomes.