

ACEN Member Summary Report for Graduate Outcomes Survey items

July 2024



Social
Research
Centre

Report prepared by:

Denise Jackson, Professor of Employability and Work-Integrated Learning

Elizabeth Cook, Research Associate

National Directors, ACEN

admin@ecu.edu.au

and

Lisa Bolton, Lauren Spencer, Diana Nguyen, Elena-May Reading

Director, QILT Research and Strategy, Senior Research Consultant, Research Consultant, Research Assistant

The Social Research Centre

Email: quilt@srcentre.com.au

Date of report: July 2024

Suggested citation: ACEN (2024). *ACEN 2023 Member Summary Report for Graduate Outcomes Survey Items*. ACEN.

Acknowledgements: We acknowledge the contribution of The Social Research Centre which administered the Graduate Outcomes Survey, including ACEN items on behalf of ACEN and their members, provided data and high-level results.

We also gratefully acknowledge the support of participating ACEN members in gathering these data and the graduates of their institutions who provided responses.

Contents

List of figures	vi
List of tables	vi
1. Introduction	1
1.1. Australian Collaborative Education Network	1
1.2. Background.....	1
1.3. About this report.....	1
1.4. Additional analysis	2
2. Participation in WIL, employability-related activities, and paid work	3
2.1. Participation in WIL	3
2.2. Participation in employability-related activities	3
2.3. Paid work during study	4
3. Participation by study and background characteristics	6
4. Participation by study area	10
5. Value of WIL for employability	12
6. Influence of WIL on employment outcomes	13
6.1. Full-time employment	13
6.2. Qualification preparedness	14
6.3. Perceived over-qualification.....	16
6.4. Occupations	17
6.5. Further studies	18
List of abbreviations and terms	19
Appendix 1 ACEN questionnaire items	20
Appendix 2 Analysis syntax	22

List of figures

Figure 1	Participation in WIL.....	3
Figure 2	Agreement with statements relating to WIL employability outcomes	12
Figure 3	Influence of WIL on employment outcomes	13

List of tables

Table 1	Employability-related activities.....	4
Table 2	Paid work activities	4
Table 3	WIL participation by gender, mode of completion, socio-economic status and age	7
Table 4	WIL participation by Indigenous, disability, citizenship and NESB indicators	7
Table 5	Employability-related activities by gender, mode of completion, socio-economic status, and age	8
Table 6	Employability-related activities by Indigenous, disability, citizenship and NESB indicators.....	9
Table 7	Study area participation	10
Table 8	Participation in any WIL by study area	11
Table 9	Influence of WIL and employability-related activities on full-time employment	14
Table 10	Qualification preparedness for graduates employed full time – All levels	15
Table 11	Scale of perceived over-qualification for graduates employed full time – All levels	16
Table 12	Full time graduate occupational outcomes – All levels.....	17
Table 13	Further full-time study outcomes – All levels	18

1. Introduction

1.1. Australian Collaborative Education Network

The Australian Collaborative Education Network Limited (ACEN) is the professional association for practitioners and researchers from the tertiary education sector, industry, community, and government, involved in work-integrated learning (WIL) in Australia. WIL engages students with their profession, industry, or the community as part of learning and assessment in higher education. WIL can include activities such as internships, cooperative education, work placements, industry or community-based learning, clinical rotations, sandwich years and practical projects.

ACEN provides strategic leadership for WIL research and practice in Australia and aims to lead the advancement of WIL in Australia through collaboration with the tertiary education sector, students, industry, community, and government.

1.2. Background

ACEN commissioned the Social Research Centre to include five items (see Appendix 1) related to WIL in the 2023 Graduate Outcomes Survey (GOS). The GOS is a component of the Quality Indicators for Learning and Teaching (QILT) suite of surveys, commissioned by the Australian Government Department of Education ('the department'). The broad aim of the GOS is to measure the short-term labour force outcomes of graduates (approximately) four to six months after completing their studies. The development, collection and reporting of these measures provide reliable, valid and generalisable information on graduate outcomes to the Australian government and higher education providers. Specific research objectives of the GOS are to measure recent higher education graduates':

- employment and further study outcomes, and
- level of satisfaction with their higher education course.

Graduates who completed a course from March 2022 through to February 2023 were invited to participate in the 2023 GOS. For most institutions, the GOS 'collection cycle' was conducted over two 'collection rounds' (November and May). There was also a smaller February round for institutions with August to October completers. Graduate sample, including contact information, was provided by the higher education institutions.

A total of 34 institutions participated in the ACEN items as part of the 2023 GOS.

The main objectives of the ACEN items were to measure:

- participation in WIL,
- participation in employability related activities,
- influence of WIL on employment outcomes, and
- influence of WIL on qualification preparedness.

1.3. About this report

This report provides a summary of results from the ACEN items included as part of the 2023 GOS. Results for each item are shown at an overall level (i.e., across all participating members) using data from the 2023 survey. These results provide important national benchmarks to which institutions can compare their own performance.

Charts and tables are used throughout the report (see List of Tables and List of Figures for further details). Each display includes a description of the respondents included in results, the number of responses received, and the question asked (i.e., survey item). Only valid responses are included, and this varies across the survey items (hence why response numbers are included in each display).

To assist with analysis, some variables were created to measure participation in any WIL activity (ACEN1) and participation in employability-related activities (ACEN3). Employability-related activities are undertaken through extra- or co-curricular arrangements and, therefore, are not for academic credit and are not part of a students' formal program of study. Refer to Appendix 1 for a complete list of ACEN questionnaire items.

Topline and equity group results have been presented for all graduates who provided a valid response and are filtered to the graduate record level to ensure no double counting for graduates undertaking double degrees. Results presented by study area are shown for all graduates who provided a valid response, with graduates who completed double degrees in different study areas presented twice (this aligns with QILT national reporting guidelines). Analysis on the impact of WIL has been undertaken to align with the GOS National Report and, as such, these data have been filtered to the domestic graduate record level.

Please note that syntax for each display is provided in Appendix 2.

1.4. Additional analysis

In addition to the summary results presented in this report, ACEN also undertakes additional analysis, including the impact of WIL and employability-related activities on other labour market outcomes, such as overall employment, and over-qualification, skill development and occupations, and how this may vary by study area and equity group status. Findings will be communicated to members in future reports, webinars, articles and/or position papers.

2. Participation in WIL, employability-related activities, and paid work

This section of the report presents summary findings for ACEN items 1, 3 and 4 included in the 2023 GOS (see Appendix 1 for items). Data are presented for all graduates who provided a valid response, filtered to the graduate record level (see '1.3 About this report' for further information).

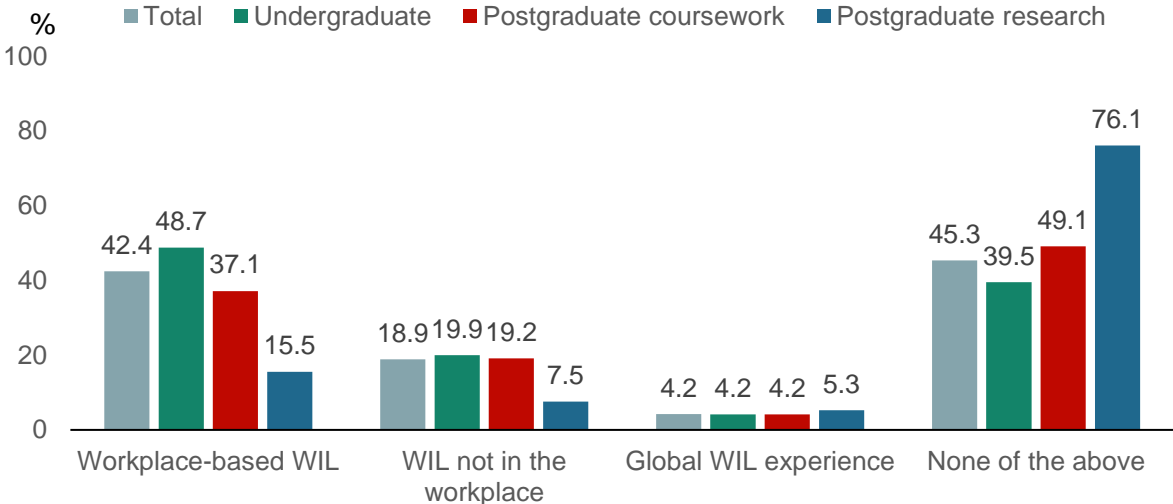
2.1. Participation in WIL

All survey respondents from participating institutions were asked if they had undertaken any WIL activities as a core or elective component of their recently completed course.

As shown in Figure 1, the most common form of WIL undertaken by respondents of the 2023 GOS was work-based WIL (42.4%). This was followed by WIL not in the workplace (18.9%) and a global WIL experience (4.2%). Slightly over two-fifths (45.3%) of graduates said they had not participated in any WIL.

A similar pattern of results was noted when looking at results by course level, with undergraduates, and graduates of postgraduate coursework and research all mentioning work-based WIL as the most common form of WIL. Postgraduate research graduates were the least likely to have undertaken any WIL, with approximately three-quarters (76.1%) responding that they had done no WIL activities during their course.

Figure 1 Participation in WIL



Base: All respondents from institutions participating in ACEN items who gave a valid response to this item (Total, n=76,086; Undergraduate, n=43,029; Postgraduate coursework, n=28,469; Postgraduate research, n=4,588).

2.2. Participation in employability-related activities

Survey respondents were also asked if they had undertaken any not-for-academic credit employability-related activities while they were studying. Table 1 shows the most common activity was volunteering (31.7%), followed by having a position of responsibility in a club or society (16.4%) and being a mentee in an industry-based arrangement (7.0%). All other employability-related activities were mentioned by fewer than one-in-ten graduates. Undergraduates and postgraduate research graduates reported higher levels of participation in employability-related activities than postgraduate coursework graduates.

Table 1 **Employability-related activities**

Activity	Total (%)	Undergraduate (%)	Postgraduate coursework (%)	Postgraduate research (%)
Volunteering	31.7	36.6	23.7	35.1
Position of responsibility in a club/society	16.4	19.2	11.2	22.2
Mentee in industry-based arrangement	7.0	7.0	6.7	9.2
Co-curricular leadership or award program	4.5	5.1	3.6	5.0
Micro-credentialing or digital badge program	3.9	3.9	3.9	3.1
Enterprise incubator or start-up activity	2.2	2.0	2.3	3.7
Other	3.7	3.8	3.1	7.4
None of these	55.8	51.3	64.1	47.3

Base: All respondents from institutions participating in ACEN items who gave a valid response to this item (Total, n=74,178; Undergraduate, n=41,844; Postgraduate coursework, n=27,773; Postgraduate research, n=4,561).

2.3. Paid work during study

To better understand work related activities, survey respondents were asked if they had undertaken any paid work activities while they were studying. As shown in Table 2, approximately one-third (34.8%) of graduates said they were in part-time work not relevant to their intended career and just under one-third (30.4%) said they were in part-time work relevant to their intended career.

Full time work was less common, with fewer than one-quarter engaged in full-time paid work relevant to their intended career (22.1%) and fewer than one-in-ten engaged in full-time work not relevant to their intended career (7.9%). Fewer than one-fifth (16.5%) of graduates said they were not engaged in any work. As shown, there was a lot of variability in paid work activities by course level, perhaps reflective of the different life stages of each cohort.

Table 2 **Paid work activities**

Activity	Total (%)	Undergraduate (%)	Postgraduate coursework (%)	Postgraduate research (%)
Part-time paid work not relevant to intended career	34.8	45.0	21.6	20.2
Part-time paid work relevant to intended career	30.4	31.6	25.6	49.2
Full-time paid work relevant to intended career	22.1	14.2	35.3	14.6
Full-time paid work not relevant to intended career	7.9	8.5	7.7	2.7
Other	3.9	4.7	2.4	6.0
None of these	16.5	16.1	16.5	20.7

Base: All respondents from institutions participating in ACEN items who gave a valid response to this item (Total, n=76,551; Undergraduate, n=43,241; Postgraduate coursework, n=28,664; Postgraduate research, n=4,646).

Please note that the items in this group do not indicate at what point of a graduate's study the employment was undertaken, how long for or whether the graduate was still employed in this role. This may impact the quality of conclusions drawn about the impact of these work activities on graduate labour force outcomes.

Which of the following paid work activities, if any, did you undertake **while you were studying** your <E308A/E308B>. *Please select all that apply.*

We recommend analysis of this item against variables in the GOS, such as EMP12 and EMPTIME, which indicate how long a graduate has been in their current job, and perhaps against the Scale of Perceived Overqualification (SPOQ) items to gain further insight.

3. Participation by study and background characteristics

Tables 3, 4, 5 and 6 (on the next pages) provide analysis of participation in WIL and employability-related activities by equity groups of importance. Key take-outs from this analysis are presented below:

- Females were more likely than their male counterparts to have participated in any form of WIL activity, driven by differences in work-based WIL.
- Internal or multi-mode students were more likely than those completing externally to have participated in any form of WIL or any employability-related activity.
- Graduates with a high socio-economic status were less likely to have participated in WIL than their low or medium counterparts. However, they were more likely to have participated in employability-related activities.
- Younger graduates (aged thirty or under) were more likely to have participated in any form of WIL activity or employability-related activity than their older counterparts (over thirty).
- Non-Indigenous graduates were more likely to have participated in any form of WIL. No differences were noted by Indigenous status for participation in any employability-related activities.
- No differences by disability status were noted for participation in any form of WIL. Graduates with a disability were more likely to have undertaken an employability-related activity.
- Domestic graduates were less likely than overseas graduates to have undertaken any form of WIL, or any employability-related activity.
- Graduates from a non-English speaking background (NESB) were more likely to have participated in any form of WIL and employability-related activity.

Table 3 WIL participation by gender, mode of completion, socio-economic status, and age

Activity	Gender		Mode of completion		Socio-economic status			Age group	
	Female (%)	Male (%)	Internal / Multi mode (%)	External (%)	High (%)	Low (%)	Medium (%)	30 or under (%)	Over 30 (%)
Any WIL	56.5*	51.6	60.4*	40.2	51.8	57.2*	56.1*	60.5*	44.1
Work-based WIL	44.9*	38.2	47.9*	28.3	41.1	47.1*	45.6	47.6*	33.0
WIL not based in the workplace	19.0	18.7	20.6*	14.5	17.6	17.6	18.0	21.1*	15.0
Global WIL experience	3.9	4.9*	4.8*	2.6	3.1	2.5	2.8	4.7*	3.3
None of these	43.5	48.4*	39.6	59.8*	48.2	42.8	43.9	39.5	55.9*

Note: * indicates response is significantly different (p<0.05) from comparison group. For socio-economic status comparisons have been made to the High cohort

Table 4 WIL participation by Indigenous, disability, citizenship, and NESB indicators

Activity	Indigenous indicator		Disability indicator		Citizenship indicator		NESB indicator	
	Non-indigenous %	Indigenous %	No disability %	Disability %	Domestic %	Overseas %	English %	NESB %
Any WIL	54.8*	49.8	54.8	53.9	53.2	60.1*	53.6	60.9*
Work-based WIL	42.4	39.6	42.4	42.2	42.7*	41.3	42.3	42.9
WIL not based in the workplace	18.9*	16.1	18.8	19.5	17.3	24.6*	18.1	23.6*
Global WIL experience	4.2*	2.6	4.3*	3.2	3.0	8.8*	3.5	8.3*
None of these	45.2	50.2*	45.2	46.1	46.8*	39.9	46.4*	39.1

Note: * indicates response is significantly different (p<0.05) from comparison group.

Table 5 Employability-related activities by gender, mode of completion, socio-economic status, and age

Activity	Gender		Mode of completion		Socio-economic status			Age group	
	Female (%)	Male (%)	Internal / Multi mode (%)	External (%)	High (%)	Low (%)	Medium (%)	30 or under (%)	Over 30 (%)
Any employability-related activity	44.2	44.0	49.3*	30.6	45.0	40.4	41.7*	48.9*	35.6
Volunteering	33.0*	29.4	35.8*	20.6	31.9	30.1	30.6	35.9*	24.1
Position of responsibility in a club/society	15.2	18.3*	19.0*	9.4	18.0	14.9	15.0	19.3*	11.2
Mentee in industry-based arrangement	6.9	7.1	7.9*	4.6	7.3	5.5	6.1	7.8*	5.5
Co-curricular leadership or award program	4.3	4.8*	5.5*	2.0	4.8	3.1	3.7*	5.6*	2.7
Micro-credentialing or digital badge program	3.3	4.8*	4.3*	2.8	4.3	2.8	3.3*	4.3*	3.2
Enterprise incubator or start-up activity	1.6	3.3*	2.6*	1.3	1.8	1.1	1.1	2.5*	1.7
Other	3.8	3.7	4.0*	3.0	4.1	3.5	3.5	3.4	4.3*
None of these	55.8	56.0	50.7	69.4*	55.0	59.6*	58.3*	51.1	64.4*

Note: * indicates response is significantly different (p<0.05) from comparison group. For socio-economic status comparisons have been made to the High cohort

Table 6 Employability-related activities by Indigenous, disability, citizenship, and NESB indicators

Activity	Indigenous indicator		Disability indicator		Citizenship indicator		NESB indicator	
	Nonindigenous	Indigenous	No disability	Disability	Domestic	Overseas	English	NESB
	%	%	%	%	%	%	%	%
Any employability-related activity	44.2	43.1	43.4	52.6*	42.3	50.9*	43.3	49.1*
Volunteering	31.7	32.9	30.9	40.3*	30.7	35.1*	31.2	34.3*
Position of responsibility in a club/society	16.4	15.4	16.0	19.9*	15.9	17.9*	16.4	16.2
Mentee in industry-based arrangement	7.0	7.9	6.9	7.6	6.3	9.4*	6.7	8.8*
Co-curricular leadership or award program	4.5	4.4	4.5	5.3*	3.9	6.7*	4.2	6.2*
Micro-credentialing or digital badge program	3.9*	2.6	3.8	5.1*	3.5	5.4*	3.6	5.6*
Enterprise incubator or start-up activity	2.3	2.0	2.3	2.1	1.5	5.1*	1.8	4.6*
Other	3.7	5.5*	3.6	5.1*	3.7	3.7	3.8	3.6
None of these	55.8	56.9	56.6*	47.4	57.7*	49.1	56.7*	50.9

Note: * indicates response is significantly different ($p < 0.05$) from comparison group. For socio-economic status comparisons have been made to the High cohort

4. Participation by study area

This section presents results for participation in WIL by study area (not graduate level). As such, graduates who completed a double degree are counted twice throughout this section if the two elements of their double degree fall into different study areas. For example, a graduate doing an Engineering/Law degree would be counted twice as their Engineering course falls into a different study area than their Law course.

Study areas with the highest number of total responses to ACEN items (see Table 7) were Business and management (17.2% of responses), Science and mathematics (9.0%), Teacher education (9.0%) and Nursing (8.7%).

There may be sufficient responses to analyse this data at the 45-study area level to break up larger and more diverse areas, such as Business and management, Science and mathematics, and Engineering.

Table 7 Study area participation

Study area	Sample records	Provided valid response to ACEN 1 or ACEN 3	
	n	n	%
Science and mathematics	8,781	7,295	9.0%
Computing and information systems	6,673	5,184	6.4%
Engineering	6,426	5,249	6.5%
Architecture and built environment	2,383	1,856	2.3%
Agriculture and environmental studies	1,870	1,591	2.0%
Health services and support	8,093	6,478	8.0%
Medicine	1,751	1,498	1.9%
Nursing	9,376	6,987	8.7%
Pharmacy	569	454	0.6%
Dentistry	294	226	0.3%
Veterinary science	374	312	0.4%
Rehabilitation	1,273	1,051	1.3%
Teacher education	9,262	7,239	9.0%
Business and management	17,642	13,849	17.2%
Humanities, culture and social sciences	8,143	6,587	8.2%
Social work	2,725	2,193	2.7%
Psychology	5,217	4,376	5.4%
Law and paralegal studies	4,254	3,406	4.2%
Creative arts	2,926	2,287	2.8%
Communications	2,858	2,303	2.9%
Tourism, hospitality, personal services, sport and recreation	242	196	0.2%
Total	101,132	80,617	100.0%

As shown in Table 8, study areas with the highest levels of participation in any form of WIL were Rehabilitation (87.6%), Tourism, Hospitality, Personal Services, Sport and Recreation (83.0%), Dentistry (81.9%), Veterinary Science (80.6%) and Pharmacy (80.0%).

Table 8 Participation in any WIL by study area

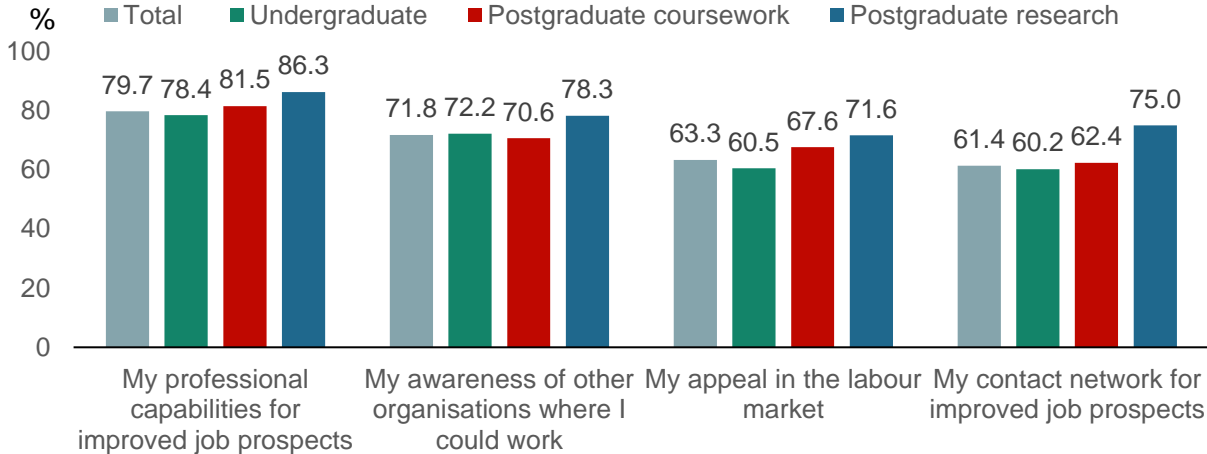
Study area	Participated in any WIL		Did not participate in any WIL	
	n	%	n	%
Science and mathematics	3,124	43.3	4,091	56.7
Computing and information systems	2,632	51.3	2,498	48.7
Engineering	3,423	65.8	1,781	34.2
Architecture and built environment	969	52.7	869	47.3
Agriculture and environmental studies	702	44.6	872	55.4
Health services and support	3,909	61.0	2,495	39.0
Medicine	821	55.6	656	44.4
Nursing	5,063	73.7	1,807	26.3
Pharmacy	360	80.0	90	20.0
Dentistry	181	81.9	40	18.1
Veterinary science	250	80.6	60	19.4
Rehabilitation	913	87.6	129	12.4
Teacher education	4,897	68.3	2,269	31.7
Business and management	6,630	48.4	7,080	51.6
Humanities, culture and social sciences	2,624	40.4	3,870	59.6
Social work	1,617	74.2	562	25.8
Psychology	1,610	37.1	2,725	62.9
Law and paralegal studies	1,799	53.3	1,575	46.7
Creative arts	1,224	54.0	1,042	46.0
Communications	1,294	56.6	991	43.4
Tourism, hospitality, personal services, sport and recreation	161	83.0	33	17.0
Total	44,203	55.4	35,535	44.6

5. Value of WIL for employability

Survey respondents who had completed some form(s) of WIL were asked to what extent they agreed or disagreed that participation in WIL had improved their employability outcomes.

Figure 2 shows the proportion of graduates who agreed or strongly agreed with each statement related to employability outcomes. There was high level of agreement among graduates that WIL activities improved professional capabilities for improved job prospects (79.7%) and awareness of other organisations where graduates could work (71.8%). Approximately two-thirds of graduates responded that participation in WIL improved their appeal in the labour market (63.3%) and their contact network for improved job prospects (61.4%). Postgraduate coursework and research graduates tended to be more likely to agree with statements relating to WIL employability outcomes than undergraduates.

Figure 2 Agreement with statements relating to WIL employability outcomes

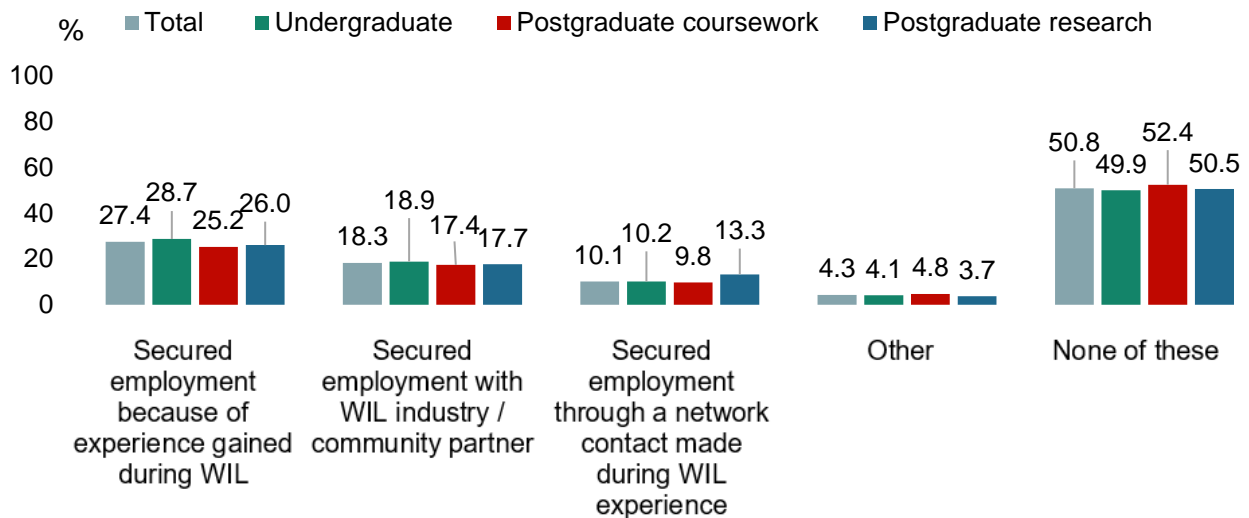


Base: Completed some form of WIL for academic credit (Total, n=41,611; Undergraduate, n=26,017; Postgraduate coursework, n=14,497; Postgraduate research, n=1,097). Note: As chart only includes valid responses, base for each item varies due to respondents choosing to skip individual items.

6. Influence of WIL on employment outcomes

All survey respondents who had completed some form(s) of WIL were asked how the experience influenced their employment outcomes. Figure 3 suggests that graduates perceive WIL to have minimal influence on employment outcomes (as measured by the items in the GOS). Half (50.8%) of graduates said that WIL had not influenced their employment outcomes in any of the ways specified. The most common influence of WIL was securing employment because of experience gained during WIL (27.4%), followed by securing employment with a WIL industry/community partner (18.3%) and securing employment through a network contact made during WIL experience (10.1%). Results were relatively stable by course level.

Figure 3 Influence of WIL on employment outcomes



Base: Completed some form of WIL and gave valid response (Total, n=40,415; Undergraduate, n=25,263; Postgraduate coursework, n=14,076; Postgraduate research, n=1,076).

However, when drawing on full-time employment, qualification preparedness and perceived over-qualification, the impact of WIL participation is more apparent. To align with data presented in the GOS National Report, results have been filtered to the graduate record level and are presented for domestic graduates only (see '1.3 About this report' for more information).

6.1. Full-time employment

Table 9 presents WIL and employability-related activity participation by full-time employment outcomes for each course level. Results show that participation in any WIL had a positive impact for undergraduates. Participation in work-based WIL had the greatest individual impact on labour force outcomes. These positive impacts were not as pronounced when looking at results for postgraduate coursework and research graduates. There does not appear to be any improvement due to WIL participation for postgraduate coursework at the top level, and minimal improvement for postgraduate research graduates. Further analysis to control for study area or demographic differences between course levels may be warranted to further explore these differences.

Table 9 Influence of WIL and employability-related activities on full-time employment

	Undergraduate		Postgraduate coursework		Postgraduate research	
	%	Base	%	Base	%	Base
Any WIL						
Participated	81.5	15,419	89.0	7,629	88.1	472
Work-based WIL	83.6	12,835	89.1	5,789	89.6	326
WIL not based in the workplace	77.1	4,791	88.8	2,666	85.9	128
Global WIL experience	81.1	857	87.7	438	85.1	101
Did not participate	74.6	9,006	91.2	8,922	85.7	1,689
Any employability-related activity						
Participated	78.1	11,352	88.0	5,118	86.2	1,104
Volunteering	78.0	8,529	86.9	3,274	86.1	728
Position of responsibility in a club/society	80.4	4,576	91.3	1,675	88.0	535
Mentee in industry-based arrangement	83.6	1,629	91.6	1,035	91.8	196
Enterprise incubator or start-up activity	78.1	397	85.6	222	91.0	67
Co-curricular leadership or award program	83.2	1,145	91.1	429	90.7	107
Micro-credentialing or digital badge program	75.7	920	88.9	576	81.8	66
Other	77.3	907	85.7	482	83.1	136
Did not participate	79.4	12,342	91.2	10,993	86.0	1,032

6.2. Qualification preparedness

Table 10 shows the impact of WIL on qualification preparedness by course level for graduates employed full-time who said their course had prepared them well or very well for current full-time employment.

Graduates who had participated in any form of WIL generally reported higher levels of qualification preparedness than those who had not participated in WIL. Qualification preparedness was higher for graduates who had undertaken any form of WIL across all cohorts. However, the impact was more pronounced for undergraduates (a difference of 15.9 percentage points for those who had undertaken any WIL compared to those who had not), than graduates of postgraduate coursework (difference of 11.7 percentage points) and postgraduate research (7.1 percentage point difference) courses. Like results for labour force outcomes, it was participation in work-based WIL that had the largest effect for undergraduates (17.2 percentage point difference), and graduates of postgraduate coursework (12.7 percentage points) and postgraduate research (7.2 percentage point difference) courses.

Table 10 Qualification preparedness for graduates employed full time – All levels

	Undergraduate		Postgraduate coursework		Postgraduate research	
	%	Base	%	Base	%	Base
Any WIL						
Participated	80.3	12,554	83.1	6,777	88.2	416
Work-based WIL	81.6	10,723	84.1	5,146	88.4	292
WIL not based in the workplace	79.1	3,692	83.2	2,363	86.4	110
Global WIL experience	80.5	693	83.5	382	86.0	86
Did not participate	64.4	6,701	71.4	8,121	81.1	1,446
Any employability-related activity						
Participated	77.6	8,853	81.1	4,496	87.7	952
Volunteering	77.9	6,643	80.7	2,841	87.1	627
Position of responsibility in a club/society	79.4	3,675	81.9	1,529	89.2	471
Mentee in industry-based arrangement	82.3	1,360	84.4	947	94.4	180
Enterprise incubator or start-up activity	74.1	309	82.6	190	83.6	61
Co-curricular leadership or award program	80.4	950	86.2	390	87.6	97
Micro-credentialing or digital badge program	76.5	695	83.2	512	87.0	54
Other	74.1	700	78.0	413	84.1	113
Did not participate	71.8	9,785	74.7	10,009	77.5	886

6.3. Perceived over-qualification

Table 11 presents data for graduates employed full-time who indicated they are not utilising their skills and knowledge in their current job. These data are useful to understand the impact of WIL on perceived over-qualification. All graduates were presented with the Scale of Perceived Overqualification (SPOQ), eight statements relating to their skills, abilities, and education, and asked to rate each on a 5-point scale (strongly disagree to strongly agree). Where 6 or more valid responses were received, an average score was calculated; scores over 3.5 deemed as perceived over-qualification for current job.

As shown, undergraduates who had participated in any WIL were less likely to consider themselves over-qualified for their current job than those who had not participated in WIL (14.1 percentage point difference). A similar trend was seen for postgraduate coursework (difference of 9.5 percentage points) and postgraduate research (2.8 percentage points), albeit much less pronounced. These results indicate that graduates who are employed full-time and have undertaken WIL are more likely to be in jobs that are fully utilising their skills and knowledge, suggesting more relevant work.

Table 11 Scale of perceived over-qualification for graduates employed full time – All levels

	Undergraduate		Postgraduate coursework		Postgraduate research	
	%	Base	%	Base	%	Base
Any WIL						
Participated	23.1	12,532	24.6	6,778	25.8	415
Work-based WIL	20.5	10,702	21.3	5,148	26.8	291
WIL not based in the workplace	27.5	3,694	29.3	2,364	28.2	110
Global WIL experience	28.9	693	28.4	384	28.2	85
Did not participate	37.2	6,688	34.1	8,101	28.6	1,443
Any employability-related activity						
Participated	27.1	8,847	29.7	4,492	26.2	950
Volunteering	27.0	6,638	29.9	2,837	27.7	625
Position of responsibility in a club/society	25.7	3,666	28.3	1,528	25.2	469
Mentee in industry-based arrangement	23.8	1,356	28.1	948	25.6	180
Enterprise incubator or start-up activity	33.6	307	35.8	190	27.9	61
Co-curricular leadership or award program	23.6	950	30.7	391	22.7	97
Micro-credentialing or digital badge program	31.1	692	38.1	512	22.2	54
Other	27.8	699	30.3	413	26.8	112
Did not participate	29.2	9,757	30.0	10,002	29.4	884

6.4. Occupations

Table 12 shows the proportion of graduates employed full time in managerial or professional occupations by WIL and employability-activities participation.

Undergraduates who participated in any WIL activity were more likely to be employed in managerial or professional positions than those who had not participated in any WIL (by 13.7 percentage points). This was strongly driven by increases in professional employment positions. Employability-related activities appeared to have less impact, with a difference of 4.1 percentage points.

Differences between those who did and did not undertake any WIL among the postgraduate coursework and research cohorts were lower (2.8 and 2.0 percentage points, respectively).

Table 12 Full time graduate occupational outcomes for full time managerial or professional occupations – All levels

	Undergraduate		Postgraduate coursework		Postgraduate research	
	%	Base	%	Base	%	Base
Any WIL						
Participated	74.1	12,503	87.1	6,770	91.8	416
Work-based WIL	76.5	10,677	88.2	5,144	91.8	292
WIL not based in the workplace	70.2	3,680	86.0	2,358	94.5	110
Global WIL experience	71.2	690	84.6	382	91.9	86
Did not participate	60.4	6,653	84.2	8,072	89.8	1,443
Any employability-related activity						
Participated	71.2	8,808	84.6	4,468	89.8	949
Volunteering	71.0	6,611	83.4	2,824	89.9	626
Position of responsibility in a club/society	74.5	3,652	86.0	1,518	90.2	471
Mentee in industry-based arrangement	73.4	1,356	84.7	943	91.1	179
Enterprise incubator or start-up activity	75.7	304	85.2	189	93.3	60
Co-curricular leadership or award program	77.6	946	86.6	387	92.8	97
Micro-credentialing or digital badge program	71.2	692	85.7	510	96.2	53
Other	72.7	696	84.7	406	87.6	113
Did not participate	67.1	9,734	85.7	9,976	90.7	885

6.5. Further studies

Table 13 shows the proportion of graduates currently in further full-time study by WIL and employability-related activities participation.

As shown, undergraduates in further full-time study were less likely to have participated in any form of WIL (10.1 percentage point difference). A similar pattern of results was seen for postgraduate coursework and postgraduate research cohorts (2.1 and 0.1 percentage points, respectively).

Table 13 Further full-time study outcomes – All levels

	Undergraduate		Postgraduate coursework		Postgraduate research	
	%	Base	%	Base	%	Base
Any WIL						
Participated	14.0	21,294	5.8	9,773	6.2	569
Work-based WIL	12.4	17,489	4.8	7,503	6.3	400
WIL not based in the workplace	16.4	6,818	7.2	3,334	8.6	151
Global WIL experience	16.7	1,151	7.9	496	7.2	111
Did not participate	24.1	14,483	7.9	11,246	6.3	2,123
Employability-related activity						
Participated	19.8	16,611	7.4	6,512	6.8	1,346
Volunteering	20.6	12,615	7.3	4,286	7.2	892
Position of responsibility in a club/society	20.4	6,522	7.9	2,068	5.4	625
Mentee in industry-based arrangement	19.4	2,231	5.4	1,204	5.9	220
Enterprise incubator or start-up activity	18.6	512	9.0	256	6.6	76
Co-curricular leadership or award program	24.8	1,643	10.1	504	10.0	120
Micro-credentialing or digital badge program	20.4	1,256	8.3	673	3.8	80
Other	17.8	1,351	7.2	626	5.2	192
Did not participate	16.7	18,158	6.7	13,974	5.6	1,313

List of abbreviations and terms

- ACEN** Australian Collaborative Education Network
- GOS** Graduate Outcomes Survey
- NESB** Non-English-Speaking Background
- QILT** Quality Indicators for Learning and Teaching
- SPOQ** Scale of Perceived Overqualification
- WIL** Work-Integrated Learning

Appendix 1 ACEN questionnaire items

*(ACENFLAG=1, ACEN INSTITUTION)

ACEN1 Work-integrated learning (WIL) is where you engage with your profession, industry or the community as part of your learning and assessment. Which of the following WIL activities, if any, did you complete as a core or elective part of your <E308A/E308B>. *Please select all that apply.*

(MULTIPLE RESPONSE)

1. Workplace-based WIL (e.g. internship, work placement, practicum, service learning, industry-based project)
2. WIL not based in the workplace (e.g. classroom or virtual project, consultancy, simulation, service learning)
3. Global WIL experience (industry study tour, international internship, placement or service learning experience)
4. None of the above *(EXCLUSIVE)

*(ACENFLAG=1 AND ACEN1NE4, ACEN INSTUTION AND COMPLETED SOME ACTIVITY)

ACEN2 Thinking about these activities you completed, please indicate the extent to which you agree or disagree with each of the following statements. The activities helped improve...

*PROGRAMMER NOTE: DISPLAY AS GRID

(STATEMENTS) (ROTATE)

- a) My appeal in the labour market
- b) My contact network for improved job prospects
- c) My awareness of other organisations where I could work
- d) My professional capabilities for improved job prospects

(RESPONSE FRAME)

1. Strongly disagree
2. Disagree
3. Neither agree nor disagree
4. Agree
5. Strongly agree

*(ACENFLAG=1, ACEN INSTITUTION)

ACEN3 Which of the following not-for-academic credit activities, if any, did you undertake while you were studying your <E308A/E308B>. *Please select all that apply.*

(MULTIPLE RESPONSE)

1. Volunteering
2. A position of responsibility in a club or society
3. Mentee in an industry-based mentoring arrangement
4. Enterprise incubator or start-up activity
5. Co-curricular leadership or award program
6. Micro-credentialing or digital badge program
7. Other (Please specify)
8. None of these *(EXCLUSIVE)

*(ACENFLAG=1, ACEN INSTITUTION)

ACEN4 Which of the following paid work activities, if any, did you undertake **while you were studying** your <E308A/E308B>. *Please select all that apply.*

(MULTIPLE RESPONSE)

1. Full time paid work relevant to your intended career
2. Part time paid work relevant to your intended career
3. Full time paid work not relevant to your intended career
4. Part time paid work not relevant to your intended career
5. Other (Please specify)
6. None of these *(EXCLUSIVE)

*(ACENFLAG=1 AND ACEN1NE4, ACEN INSTUTION AND COMPLETED SOME ACTIVITY)

ACEN5 How did your WIL experience influence your employment outcomes?

(MULTIPLE RESPONSE)

1. Secured employment with WIL industry / community partner
2. Secured employment because of experience gained during WIL
3. Secured employment through a network contact made during WIL experience
4. Other (Please specify)
5. None of these *(EXCLUSIVE)

Appendix 2 Analysis syntax

The syntax below has been provided to assist with institutional analysis of the work-integrated learning questionnaire items included in the GOS. This syntax has been developed by the Social Research Centre, is for use with SPSS and aligns with measures used in the GOS National Report.

* Encoding: UTF-8.

*IF USING NATIONAL DATASET ADDITIONAL FILTER ACENFLAG=1 IN ALL FILTERS

*** LOOKS MUCH BETTER IF YOU SET SPSS NOT TO OUTPUT SCRIPT AND DISPLAY NAMES OF LABELS AND VALUES SO THAT IT IS LESS CLUTTERED (IN EDIT OPTIONS - VIEWER SECTION)

*** WHEN EXPORTING TO EXCEL ONLY VISIBLE ELEMENTS

MISSING VALUES ACADEMICWIL (95,99,90).

MISSING VALUES EMPLOYABILITYACT (95,99,90).

DATASET ACTIVATE DataSet1.

USE ALL.

COMPUTE filter_\$=(ANALYSIS=1 AND YEAR=2023).

VARIABLE LABELS filter_\$ 'ANALYSIS=1 AND YEAR=2023 '(FILTER)'.
'

VALUE LABELS filter_\$ 0 'Not Selected' 1 'Selected'.

FORMATS filter_\$ (f1.0).

FILTER BY filter_\$.

EXECUTE.

ECHO 'Number of graduates who have done ANY WIL or ANY Employability activities'.

* Custom Tables.

CTABLES

```
/VLABELS VARIABLES=ACADEMICWIL EMPLOYABILITYACT LEVEL DISPLAY=DEFAULT  
/TABLE ACADEMICWIL [C][COUNT F40.0, COLPCT.COUNT PCT40.1] + EMPLOYABILITYACT  
[C][COUNT F40.0,  
COLPCT.COUNT PCT40.1] BY LEVEL [C]
```

```
/CATEGORIES VARIABLES=ACADEMICWIL EMPLOYABILITYACT LEVEL ORDER=A  
KEY=VALUE EMPTY=INCLUDE TOTAL=YES  
POSITION=AFTER MISSING=EXCLUDE  
/CRITERIA CILEVEL=95.
```

ECHO 'Number of graduates who have done WIL for academic credit (Figure 1)'.

* Custom Tables.

CTABLES

```
/VLABELS VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 LEVEL DISPLAY=DEFAULT  
/TABLE ACEN1_1 + ACEN1_2 + ACEN1_3 + ACEN1_4 BY LEVEL [C][COUNT F40.0,  
COLPCT.COUNT PCT40.1]  
/CATEGORIES VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 ORDER=A KEY=VALUE  
EMPTY=INCLUDE  
MISSING=EXCLUDE  
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES  
POSITION=AFTER  
/CRITERIA CILEVEL=95.
```

ECHO 'Number of graduates who have done Employability activities Table 1'.

* Custom Tables.

CTABLES

```
/VLABELS VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6 ACEN3_7  
ACEN3_8 LEVEL  
DISPLAY=DEFAULT  
/TABLE ACEN3_1 + ACEN3_2 + ACEN3_3 + ACEN3_4 + ACEN3_5 + ACEN3_6 + ACEN3_7 +  
ACEN3_8 BY LEVEL  
[C][COUNT F40.0, COLPCT.COUNT PCT40.1]  
/CATEGORIES VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6  
ACEN3_7 ACEN3_8 ORDER=A  
KEY=VALUE EMPTY=INCLUDE MISSING=EXCLUDE  
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES  
POSITION=AFTER  
/CRITERIA CILEVEL=95.
```

ECHO 'Number of graduates who have done paid work activities Table 2'.

CTABLES

```
/VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6 LEVEL  
DISPLAY=DEFAULT
```

```
/TABLE ACEN4_1 + ACEN4_2 + ACEN4_3 + ACEN4_4 + ACEN4_5 + ACEN4_6 BY LEVEL
```

```
[C][COUNT F40.0, COLPCT.COUNT PCT40.1]
```

```
/CATEGORIES VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6  
ORDER=A
```

```
KEY=VALUE EMPTY=INCLUDE MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES  
POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

ECHO 'Number of graduates who have done WIL for academic credit BY demographics Table 3'.

```
RECODE E913 (31 thru Highest=2) (Lowest thru 30=1) INTO AGE_GROUP.
```

```
VARIABLE LABELS AGE_GROUP 'Age Group'.
```

```
EXECUTE.
```

```
VALUE LABELS AGE_GROUP 1 '30 or under' 2 'Over 30'.
```

```
EXECUTE.
```

```
RECODE E329 (1=1) (2=2) (3=1) (4=2) (5=SYSMIS) (9=SYSMIS) INTO E329_GROUP.
```

```
VARIABLE LABELS E329_GROUP 'Study Mode Group'.
```

```
EXECUTE.
```

```
VALUE LABELS E329_GROUP 1 'Internal/Multi' 2 'External'.
```

```
EXECUTE.
```

```
ALTER TYPE AGE_GROUP E329_GROUP (F8.0).
```

CTABLES

```

/VLABELS VARIABLES=ACADEMICWIL ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 E315
E329_GROUP first_SES_SA1 AGE_GROUP

DISPLAY=DEFAULT

/TABLE ACADEMICWIL [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] + ACEN1_1 [C][COUNT
F40.0,
COLPCT.VALIDN PCT40.1] + ACEN1_2 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] +
ACEN1_3 [C][COUNT F40.0,
COLPCT.VALIDN PCT40.1] + ACEN1_4 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] BY E315
[C] + E329_GROUP [C] +
first_SES_SA1 [C] + AGE_GROUP [C]

/CATEGORIES VARIABLES=ACADEMICWIL ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 E315
E329_GROUP first_SES_SA1 AGE_GROUP ORDER=A

KEY=VALUE EMPTY=INCLUDE MISSING=EXCLUDE

/CRITERIA CILEVEL=95.

```

ECHO 'Number of graduates who have done WIL for academic credit BY demographics Table 4'.

CTABLES

```

/VLABELS VARIABLES=ACADEMICWIL ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 E940 E943
E942 E941

DISPLAY=DEFAULT

/TABLE ACADEMICWIL [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] + ACEN1_1 [C][COUNT
F40.0,
COLPCT.VALIDN PCT40.1] + ACEN1_2 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] +
ACEN1_3 [C][COUNT F40.0,
COLPCT.VALIDN PCT40.1] + ACEN1_4 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] BY E940
[C] + E943 [C] +
E942 [C] + E941 [C]

/CATEGORIES VARIABLES=ACADEMICWIL ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 E940 E943
E942 E941 ORDER=A

KEY=VALUE EMPTY=INCLUDE MISSING=EXCLUDE

/CRITERIA CILEVEL=95.

```

ECHO 'Number of graduates who have done Employability related activities BY demographics Table 5'.

CTABLES

```
/VLABELS VARIABLES=EMPLOYABILITYACT ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5  
ACEN3_6 ACEN3_7 ACEN3_8 E315 E329_GROUP first_SES_SA1 AGE_GROUP
```

```
DISPLAY=DEFAULT
```

```
/TABLE EMPLOYABILITYACT [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] + ACEN3_1  
[C][COUNT F40.0,
```

```
COLPCT.VALIDN PCT40.1] + ACEN3_2 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] +  
ACEN3_3 [C][COUNT F40.0,
```

```
COLPCT.VALIDN PCT40.1] + ACEN3_4 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] +  
ACEN3_5 [C][COUNT F40.0,
```

```
COLPCT.VALIDN PCT40.1] + ACEN3_6 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] +  
ACEN3_7 [C][COUNT F40.0,
```

```
COLPCT.VALIDN PCT40.1] + ACEN3_8 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] BY E315  
[C] + E329_GROUP [C] +
```

```
first_SES_SA1 [C] + AGE_GROUP
```

```
/CATEGORIES VARIABLES=EMPLOYABILITYACT ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4  
ACEN3_5 ACEN3_6 ACEN3_7 ACEN3_8 E315 E329_GROUP first_SES_SA1 AGE_GROUP  
ORDER=A
```

```
KEY=VALUE EMPTY=INCLUDE MISSING=EXCLUDE
```

```
/CRITERIA CILEVEL=95.
```

ECHO 'Number of graduates who have done Employability related activities BY demographics Table 6'.

CTABLES

```
/VLABELS VARIABLES=EMPLOYABILITYACT ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5  
ACEN3_6 ACEN3_7 ACEN3_8 E940 E943 E942 E941
```

```
DISPLAY=DEFAULT
```

```
/TABLE EMPLOYABILITYACT [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] + ACEN3_1  
[C][COUNT F40.0,
```

```
COLPCT.VALIDN PCT40.1] + ACEN3_2 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] +  
ACEN3_3 [C][COUNT F40.0,
```

```
COLPCT.VALIDN PCT40.1] + ACEN3_4 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] +  
ACEN3_5 [C][COUNT F40.0,
```

```
COLPCT.VALIDN PCT40.1] + ACEN3_6 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] +  
ACEN3_7 [C][COUNT F40.0,
```

```
COLPCT.VALIDN PCT40.1] + ACEN3_8 [C][COUNT F40.0, COLPCT.VALIDN PCT40.1] BY E940  
[C] + E943 [C] +
```

```
E942 [C] + E941 [C]
```

```
/CATEGORIES VARIABLES=EMPLOYABILITYACT ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4  
ACEN3_5 ACEN3_6 ACEN3_7 ACEN3_8 E940 E943 E942 E941 ORDER=A
```

```
KEY=VALUE EMPTY=INCLUDE MISSING=EXCLUDE
```

```
/CRITERIA CILEVEL=95.
```

```
ECHO 'Study area participation Table 7'.
```

*For sample counts

```
FREQUENCIES VARIABLES=AREA
```

```
/ORDER=ANALYSIS.
```

*For provided valid response counts

```
COMPUTE VALIDRESPONSE=0.
```

```
COUNT ACEN1VALID=ACEN1_1, ACEN1_2, ACEN1_3, ACEN1_4 (0,1).
```

```
COUNT ACEN3VALID=ACEN3_1, ACEN3_2, ACEN3_3, ACEN3_4, ACEN3_5, ACEN3_6,  
ACEN3_7, ACEN3_8 (0,1).
```

```
IF (ACEN1VALID=4 OR ACEN3VALID=8) VALIDRESPONSE=1.
```

```
EXECUTE.
```

```
ECHO 'Number of graduates who have done WIL for academic credit BY STUDY AREA Table 8'.
```

* Custom Tables.

```
CTABLES
```

```
/VLABELS VARIABLES=AREA ACADEMICWIL LEVEL DISPLAY=DEFAULT
```

```
/TABLE AREA > ACADEMICWIL BY LEVEL [C][COUNT F40.0, COLPCT.COUNT PCT40.1]
```

```
/CATEGORIES VARIABLES=AREA ACADEMICWIL ORDER=A KEY=VALUE EMPTY=INCLUDE  
MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES  
POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

```
ECHO 'Number of graduates who have done Employability activities BY STUDY AREA Table 8'.
```

CTABLES

```
/VLABELS VARIABLES=AREA EMPLOYABILITYACT LEVEL DISPLAY=DEFAULT
/TABLE AREA > EMPLOYABILITYACT BY LEVEL [C][COUNT F40.0, COLPCT.COUNT PCT40.1]
/CATEGORIES VARIABLES=AREA EMPLOYABILITYACT ORDER=A KEY=VALUE
EMPTY=INCLUDE MISSING=EXCLUDE
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER
/CRITERIA CILEVEL=95.
```

ECHO 'Agreement with statements relating to WIL employability outcomes (Figure 2)'.

* Custom Tables.

CTABLES

```
/VLABELS VARIABLES=ACEN2_A ACEN2_B ACEN2_C ACEN2_D LEVEL DISPLAY=DEFAULT
/TABLE ACEN2_A + ACEN2_B + ACEN2_C + ACEN2_D BY LEVEL [C][COUNT F40.0,
COLPCT.COUNT PCT40.1]
/CATEGORIES VARIABLES=ACEN2_A ACEN2_B ACEN2_C ACEN2_D ORDER=A KEY=VALUE
EMPTY=INCLUDE
MISSING=EXCLUDE
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER
/CRITERIA CILEVEL=95.
```

ECHO 'Average agreement ratings for employability outcomes by course level Table 9'.

MEANS TABLES=ACEN2_A ACEN2_B ACEN2_C ACEN2_D BY LEVEL

```
/CELLS=MEAN STDDEV.
```

EXECUTE.

ECHO ' '.

ECHO 'THE SYNTAX BELOW FILTERS THE FILE FOR ANALYSIS ON STUDY AREA. THESE TABLES REPRODUCE DATA IN TABLES 7 AND 8 OF THE REPORT'.

ECHO ' '.

DATASET ACTIVATE DataSet1.

USE ALL.


```
COMPUTE filter_$=((ANALYSIS=1 or ANALYSIS =2) AND YEAR=2023).
VARIABLE LABELS filter_$ 'ANALYSIS=1 OR ANALYSIS=2 AND YEAR=2023 '(FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
```

```
ECHO 'Influence of WIL on employment outcomes (student supplied) (Figure 3)'.
```

```
CTABLES
```

```
  /VLABELS VARIABLES=ACEN5_1 ACEN5_2 ACEN5_3 ACEN5_4 ACEN5_5 LEVEL
  DISPLAY=DEFAULT
```

```
  /TABLE ACEN5_1 + ACEN5_2 + ACEN5_3 + ACEN5_4 + ACEN5_5 BY LEVEL [C][COUNT F40.0,
  COLPCT.COUNT PCT40.1]
```

```
  /CATEGORIES VARIABLES=ACEN5_1 ACEN5_2 ACEN5_3 ACEN5_4 ACEN5_5 ORDER=A
  KEY=VALUE EMPTY=INCLUDE
```

```
    MISSING=EXCLUDE
```

```
  /CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
  POSITION=AFTER
```

```
  /CRITERIA CILEVEL=95.
```

```
ECHO ' PART 2 '.
```

```
ECHO ' '.
```

```
ECHO ' THESE TABLES REPRODUCE DATA IN TABLE 10 IN REPORT '.
```

```
ECHO ' '.
```

```
ECHO 'WIL participation and Employability activities by labour force outcomes (DOMESTIC ONLY)'.
```

```
*WIL participation by labour force outcomes
```

```
*Full time employment rates by level of study BY ACADEMICWIL AND EMPLOYABILITYACT
```

```
DATASET ACTIVATE DataSet1.
```

```
USE ALL.
```

```
COMPUTE filter_$=(ANALYSIS=1 AND E942=0 AND YEAR=2023 AND AVAILFT=1).
VARIABLE LABELS filter_$ 'ANALYSIS=1 AND E942=0 AND YEAR=2023 AND AVAILFT=1
'(FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMATS filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
```

```
ECHO ' '.
```

```
ECHO 'Full time employment rate by level by those who have done any WIL for academic credit and
Employability activities'.
```

```
* Custom Tables.
```

```
CTABLES
```

```
  /VLABELS VARIABLES=ACADEMICWIL EMPLOYABILITYACT LEVEL FULLEMP
  DISPLAY=DEFAULT
```

```
  /TABLE ACADEMICWIL [C][COUNT F40.0,
  ROWPCT.COUNT PCT40.1] + EMPLOYABILITYACT [C][COUNT F40.0, ROWPCT.COUNT
  PCT40.1] BY LEVEL [C] >
```

```
  FULLEMP [C]
```

```
  /CATEGORIES VARIABLES=ACADEMICWIL EMPLOYABILITYACT ORDER=D KEY=LABEL
  EMPTY=INCLUDE
```

```
  MISSING=EXCLUDE
```

```
  /CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
  /CATEGORIES VARIABLES=FULLEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
  POSITION=AFTER
```

```
  /CRITERIA CILEVEL=95.
```

```
ECHO 'Full time employment rate by level by those who have done WIL for academic credit'.
```

```
* Custom Tables.
```

```
CTABLES
```

```
  /VLABELS VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 LEVEL FULLEMP
  DISPLAY=DEFAULT
```

```
  /TABLE ACEN1_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_2 [COUNT F40.0,
  ROWPCT.COUNT PCT40.1]
```

```

+ ACEN1_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] BY
  LEVEL > FULLEMP
/CATEGORIES VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 ORDER=D KEY=LABEL
EMPTY=INCLUDE TOTAL=YES
  POSITION=AFTER MISSING=EXCLUDE
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
/CATEGORIES VARIABLES=FULLEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER
/CRITERIA CILEVEL=95.

```

ECHO 'Full time employment rate by level by those who have done Employability activities'.

CTABLES

```

/VLABELS VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6 ACEN3_7
ACEN3_8 LEVEL FULLEMP DISPLAY=DEFAULT
/TABLE ACEN3_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]
+ ACEN3_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] + ACEN3_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_6
[COUNT F40.0, ROWPCT.COUNT PCT40.1]
+ ACEN3_7 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_8 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] BY LEVEL > FULLEMP
/CATEGORIES VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6
ACEN3_7 ACEN3_8 ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES
  POSITION=AFTER MISSING=EXCLUDE
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
/CATEGORIES VARIABLES=FULLEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER
/CRITERIA CILEVEL=95.

```

ECHO 'Full time employment rate by level by those who have undertaken work during their study
(Additional analysis table, not in report)'.

CTABLES

```
/VLABELS VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6 LEVEL
FULLEMP DISPLAY=DEFAULT
```

```
/TABLE ACEN4_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]
```

```
+ ACEN4_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] + ACEN4_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1]
```

```
+ ACEN4_6 [COUNT F40.0, ROWPCT.COUNT PCT40.1] BY LEVEL > FULLEMP
```

```
/CATEGORIES VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6
ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES
```

```
POSITION=AFTER MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
/CATEGORIES VARIABLES=FULLEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

*Overall employment rates by level of study BY ACADEMICWIL AND EMPLOYABILITYACT

USE ALL.

```
COMPUTE filter_$=(ANALYSIS=1 AND E942=0 AND YEAR=2023 AND AVAILEMP=1).
```

```
VARIABLE LABELS filter_$ 'ANALYSIS=1 AND E942=0 AND YEAR=2023 AND AVAILEMP=1
'(FILTER)'.

```

```
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
```

```
FORMATS filter_$ (f1.0).
```

```
FILTER BY filter_$.
```

```
EXECUTE.
```

ECHO 'Overall employment rate by level by those who have done WIL for academic credit and Employability activities'.

CTABLES

```
/VLABELS VARIABLES=ACADEMICWIL EMPLOYABILITYACT LEVEL GENEMP
DISPLAY=DEFAULT
```

```
/TABLE ACADEMICWIL [C][COUNT F40.0,
```

```
ROWPCT.COUNT PCT40.1] + EMPLOYABILITYACT [C][COUNT F40.0, ROWPCT.COUNT
PCT40.1] BY LEVEL [C] >
```

```
GENEMP [C]
```

```
/CATEGORIES VARIABLES=ACADEMICWIL EMPLOYABILITYACT ORDER=D KEY=LABEL  
EMPTY=INCLUDE
```

```
MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
/CATEGORIES VARIABLES=GENEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES  
POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

ECHO 'Overall employment rate by level by those who have done WIL for academic credit'.

CTABLES

```
/VLABELS VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 LEVEL GENEMP  
DISPLAY=DEFAULT
```

```
/TABLE ACEN1_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_2 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1]
```

```
+ ACEN1_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_4 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1] BY
```

```
LEVEL > GENEMP
```

```
/CATEGORIES VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 ORDER=D KEY=LABEL  
EMPTY=INCLUDE TOTAL=YES
```

```
POSITION=AFTER MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
/CATEGORIES VARIABLES=GENEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES  
POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

ECHO 'Overall employment rate by level by those who have done Employability activities'.

CTABLES

```
/VLABELS VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6 ACEN3_7  
ACEN3_8 LEVEL GENEMP DISPLAY=DEFAULT
```

```
/TABLE ACEN3_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_2 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1]
```

```
+ ACEN3_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_4 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1] + ACEN3_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_6  
[COUNT F40.0, ROWPCT.COUNT PCT40.1]
```

```

+ ACEN3_7 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_8 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] BY LEVEL > GENEMP

/CATEGORIES VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6
ACEN3_7 ACEN3_8 ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES

POSITION=AFTER MISSING=EXCLUDE

/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE

/CATEGORIES VARIABLES=GENEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER

/CRITERIA CILEVEL=95.

```

ECHO 'Overall employment rate by level by those who have undertaken work during their study (Additional analysis table, not in report)'.

CTABLES

```

/VLABELS VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6 LEVEL
GENEMP DISPLAY=DEFAULT

/TABLE ACEN4_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]

+ ACEN4_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] + ACEN4_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1]

+ ACEN4_6 [COUNT F40.0, ROWPCT.COUNT PCT40.1] BY LEVEL > GENEMP

/CATEGORIES VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6
ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES

POSITION=AFTER MISSING=EXCLUDE

/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE

/CATEGORIES VARIABLES=GENEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER

/CRITERIA CILEVEL=95.

```

*Labour force participation rates by level of study BY OVERALLWIL, ACADEMICWIL AND EMPLOYABILITYACT

USE ALL.

COMPUTE filter_\$=(ANALYSIS=1 AND E942=0 AND YEAR=2023).

VARIABLE LABELS filter_\$ 'ANALYSIS=1 AND E942=0 AND YEAR=2023

'(FILTER)'.

VALUE LABELS filter_\$ 0 'Not Selected' 1 'Selected'.

FORMATS filter_\$ (f1.0).

FILTER BY filter_\$.

EXECUTE.

ECHO 'Labour force participation rate by level by those who have done WIL for academic credit and Employability activities'.

CTABLES

```
/VLABELS VARIABLES=ACADEMICWIL EMPLOYABILITYACT LEVEL AVAILEMP  
DISPLAY=DEFAULT
```

```
/TABLE ACADEMICWIL [C][COUNT F40.0,  
ROWPCT.COUNT PCT40.1] + EMPLOYABILITYACT [C][COUNT F40.0, ROWPCT.COUNT  
PCT40.1] BY LEVEL [C] >
```

```
AVAILEMP [C]
```

```
/CATEGORIES VARIABLES=ACADEMICWIL EMPLOYABILITYACT ORDER=D KEY=LABEL  
EMPTY=INCLUDE
```

```
MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
/CATEGORIES VARIABLES=AVAILEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES  
POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

ECHO 'Labour force participation rate by level by those who have done WIL for academic credit'.

CTABLES

```
/VLABELS VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 LEVEL AVAILEMP  
DISPLAY=DEFAULT
```

```
/TABLE ACEN1_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_2 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1]
```

```
+ ACEN1_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_4 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1] BY
```

```
LEVEL > AVAILEMP
```

```
/CATEGORIES VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 ORDER=D KEY=LABEL  
EMPTY=INCLUDE TOTAL=YES
```

```

POSITION=AFTER MISSING=EXCLUDE
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
/CATEGORIES VARIABLES=AVAILEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER
/CRITERIA CILEVEL=95.

```

ECHO 'Labour force participation rate by level by those who have done Employability activities'.

CTABLES

```

/VLABELS VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6 ACEN3_7
ACEN3_8 LEVEL AVAILEMP DISPLAY=DEFAULT

```

```

/TABLE ACEN3_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]

```

```

+ ACEN3_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] + ACEN3_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_6
[COUNT F40.0, ROWPCT.COUNT PCT40.1]

```

```

+ ACEN3_7 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_8 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] BY LEVEL > AVAILEMP

```

```

/CATEGORIES VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6
ACEN3_7 ACEN3_8 ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES

```

```

POSITION=AFTER MISSING=EXCLUDE

```

```

/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE

```

```

/CATEGORIES VARIABLES=AVAILEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER

```

```

/CRITERIA CILEVEL=95.

```

ECHO 'Labour force participation rate by level by those who have undertaken work during their study (Additional analysis table, not in report)'.

CTABLES

```

/VLABELS VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6 LEVEL
AVAILEMP DISPLAY=DEFAULT

```

```

/TABLE ACEN4_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]

```

```

+ ACEN4_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] + ACEN4_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1]

```

```

+ ACEN4_6 [COUNT F40.0, ROWPCT.COUNT PCT40.1] BY LEVEL > AVAILEMP

```



```
/CATEGORIES VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6  
ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES
```

```
POSITION=AFTER MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
/CATEGORIES VARIABLES=AVAILEMP ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES  
POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

```
*Preparedness of the qualification BY OVERALLWIL, ACADEMICWIL AND EMPLOYABILITYACT
```

```
ECHO 'PART 3'.
```

```
ECHO ' '.
```

```
ECHO 'PREPAREDNESS '.
```

```
*WIL participation by labour force outcomes
```

```
*Full time employment rates by level of study BY ACADEMICWIL AND EMPLOYABILITYACT
```

```
ECHO ' '.
```

```
ECHO ' Table 11 of Report '.
```

```
ECHO ' '.
```

```
*Create new variable
```

```
RECODE CRSPREP (1=1) (2=1) (3=2) (4=2) (5=1) (SYSMIS=SYSMIS) INTO CRSPREP_2.
```

```
VARIABLE LABELS CRSPREP_2 'Qualification preparedness'.
```

```
EXECUTE.
```

```
ALTER TYPE CRSPREP_2 (F8).
```

```
VALUE LABELS CRSPREP_2 1 'Not well prepared' 2 'Very well or well prepared'.
```

```
EXECUTE.
```

```
MISSING VALUES CRSPREP_2 (95,99).
```

*Filter to full time employed

USE ALL.

COMPUTE filter_\$=(ANALYSIS=1 AND E942=0 AND YEAR=2023 AND FULLEMP=1).

VARIABLE LABELS filter_\$ 'ANALYSIS=1 AND E942=0 AND YEAR=2023 AND FULLEMP=1
'(FILTER)'.
'(FILTER)'.

VALUE LABELS filter_\$ 0 'Not Selected' 1 'Selected'.

FORMATS filter_\$ (f1.0).

FILTER BY filter_\$.

EXECUTE.

ECHO 'Preparedness by level by those who have done WIL for academic credit and Employability activities'.

CTABLES

/VLABELS VARIABLES=ACADEMICWIL EMPLOYABILITYACT LEVEL CRSPREP_2
DISPLAY=DEFAULT

/TABLE ACADEMICWIL [C][COUNT F40.0,
ROWPCT.COUNT PCT40.1] + EMPLOYABILITYACT [C][COUNT F40.0, ROWPCT.COUNT
PCT40.1] BY LEVEL [C] >

CRSPREP_2 [C]

/CATEGORIES VARIABLES=ACADEMICWIL EMPLOYABILITYACT ORDER=D KEY=LABEL
EMPTY=INCLUDE

MISSING=EXCLUDE

/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE

/CATEGORIES VARIABLES=CRSPREP_2 ORDER=A KEY=VALUE EMPTY=INCLUDE
TOTAL=YES POSITION=AFTER

/CRITERIA CILEVEL=95.

ECHO 'Preparedness by level by those who have done WIL for academic credit'.

CTABLES

/VLABELS VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 LEVEL CRSPREP_2
DISPLAY=DEFAULT

```

/TABLE ACEN1_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]
+ ACEN1_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] BY
LEVEL > CRSPREP_2
/CATEGORIES VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 ORDER=D KEY=LABEL
EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER MISSING=EXCLUDE
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
/CATEGORIES VARIABLES=CRSPREP_2 ORDER=A KEY=VALUE EMPTY=INCLUDE
TOTAL=YES POSITION=AFTER
/CRITERIA CILEVEL=95.

```

ECHO 'Preparedness by level by those who have done Employability activities'.

CTABLES

```

/VLABELS VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6 ACEN3_7
ACEN3_8 LEVEL CRSPREP_2 DISPLAY=DEFAULT
/TABLE ACEN3_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]
+ ACEN3_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] + ACEN3_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_6
[COUNT F40.0, ROWPCT.COUNT PCT40.1]
+ ACEN3_7 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_8 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] BY LEVEL > CRSPREP_2
/CATEGORIES VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6
ACEN3_7 ACEN3_8 ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER MISSING=EXCLUDE
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
/CATEGORIES VARIABLES=CRSPREP_2 ORDER=A KEY=VALUE EMPTY=INCLUDE
TOTAL=YES POSITION=AFTER
/CRITERIA CILEVEL=95.

```

ECHO 'Preparedness by level by those who have undertaken work during their study (Additional analysis table, not in report)'.

CTABLES

```
/VLABELS VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6 LEVEL  
CRSPREP_2 DISPLAY=DEFAULT
```

```
/TABLE ACEN4_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_2 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1]
```

```
+ ACEN4_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_4 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1] + ACEN4_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1]
```

```
+ ACEN4_6 [COUNT F40.0, ROWPCT.COUNT PCT40.1] BY LEVEL > CRSPREP_2
```

```
/CATEGORIES VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6  
ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES
```

```
POSITION=AFTER MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
/CATEGORIES VARIABLES=CRSPREP_2 ORDER=A KEY=VALUE EMPTY=INCLUDE  
TOTAL=YES POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

*Table Scale of perceived overqualification

```
ECHO 'PART4 SPOQ'.
```

```
ECHO ' '.
```

```
ECHO 'Table 12 of Report'.
```

```
ECHO ' '.
```

```
ECHO 'Scale of perceived overqualification by level by those who have done any WIL for academic  
credit and Employability activities'.
```

CTABLES

```
/VLABELS VARIABLES=ACADEMICWIL EMPLOYABILITYACT LEVEL SPOQSCL  
DISPLAY=DEFAULT
```

```
/TABLE ACADEMICWIL [C][COUNT F40.0,  
ROWPCT.COUNT PCT40.1] + EMPLOYABILITYACT [C][COUNT F40.0, ROWPCT.COUNT  
PCT40.1] BY LEVEL [C] >
```

```
SPOQSCL [C]
```

```
/CATEGORIES VARIABLES=ACADEMICWIL EMPLOYABILITYACT ORDER=D KEY=LABEL  
EMPTY=INCLUDE
```

```
MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
/CATEGORIES VARIABLES=SPOQSCL ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES  
POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

```
ECHO 'SPOQ by level by those who have done WIL for academic credit'.
```

```
CTABLES
```

```
/VLABELS VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 LEVEL SPOQSCL  
DISPLAY=DEFAULT
```

```
/TABLE ACEN1_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_2 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1]
```

```
+ ACEN1_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_4 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1] BY
```

```
LEVEL > SPOQSCL
```

```
/CATEGORIES VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 ORDER=D KEY=LABEL  
EMPTY=INCLUDE TOTAL=YES
```

```
POSITION=AFTER MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
/CATEGORIES VARIABLES=SPOQSCL ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES  
POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

```
ECHO 'SPOQ by level by those who have done Employability activities'.
```

```
CTABLES
```

```
/VLABELS VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6 ACEN3_7  
ACEN3_8 LEVEL SPOQSCL DISPLAY=DEFAULT
```

```
/TABLE ACEN3_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_2 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1]
```

```
+ ACEN3_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_4 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1] + ACEN3_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_6  
[COUNT F40.0, ROWPCT.COUNT PCT40.1]
```

```
+ ACEN3_7 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_8 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1] BY LEVEL > SPOQSCL
```

```
/CATEGORIES VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6  
ACEN3_7 ACEN3_8 ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES
```

```
POSITION=AFTER MISSING=EXCLUDE
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
/CATEGORIES VARIABLES=SPOQSCL ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER
/CRITERIA CILEVEL=95.
```

ECHO 'SPOQ by level by those who have undertaken work during their study (Additional analysis table, not in report)'.

* Custom Tables.

CTABLES

```
/VLABELS VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6 LEVEL
SPOQSCL DISPLAY=DEFAULT
```

```
/TABLE ACEN4_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]
```

```
+ ACEN4_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] + ACEN4_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1]
```

```
+ ACEN4_6 [COUNT F40.0, ROWPCT.COUNT PCT40.1] BY LEVEL > SPOQSCL
```

```
/CATEGORIES VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6
ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES
```

```
POSITION=AFTER MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
/CATEGORIES VARIABLES=SPOQSCL ORDER=A KEY=VALUE EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

*Create variable for occupations summary

```
RECODE BROADOCC (1=1) (2=1) (3=2) (4=2) (5=2) (6=2) (9=9) (SYSMIS=SYSMIS) INTO
BROADOCC_2.
```

```
VARIABLE LABELS BROADOCC_2 'Broad occupation description derived from top-level ANZSCO'.
```

```
EXECUTE.
```

```
ALTER TYPE BROADOCC_2 (F8).
```

```
VALUE LABELS BROADOCC_2 1 'Managerial or professional occupations' 2 'Other occupations'.
```

EXECUTE.

MISSING VALUES BROADOCC_2 (9).

*Table Occupations Full time employed

ECHO 'PART 4 OCCUPATIONS'.

ECHO ' '.

ECHO ' Table 13'.

ECHO ' '.

ECHO 'Managerial or professional occupations by level by those who have done WIL for academic credit and Employability activities (Additional analysis table, not in report)'.

CTABLES

/VLABELS VARIABLES=ACADEMICWIL EMPLOYABILITYACT LEVEL BROADOCC_2
DISPLAY=DEFAULT

/TABLE ACADEMICWIL [C][COUNT F40.0,
ROWPCT.COUNT PCT40.1] + EMPLOYABILITYACT [C][COUNT F40.0, ROWPCT.COUNT
PCT40.1] BY LEVEL [C] >

BROADOCC_2 [C]

/CATEGORIES VARIABLES=ACADEMICWIL EMPLOYABILITYACT ORDER=D KEY=LABEL
EMPTY=INCLUDE

MISSING=EXCLUDE

/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE

/CATEGORIES VARIABLES=BROADOCC_2 ORDER=A KEY=VALUE EMPTY=INCLUDE
TOTAL=YES POSITION=AFTER

/CRITERIA CILEVEL=95.

ECHO 'Managerial or professional occupations by level by those who have done WIL for academic credit'.

CTABLES

/VLABELS VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 LEVEL BROADOCC_2
DISPLAY=DEFAULT

```

/TABLE ACEN1_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]
+ ACEN1_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] BY
LEVEL > BROADOCC_2
/CATEGORIES VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 ORDER=D KEY=LABEL
EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER MISSING=EXCLUDE
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
/CATEGORIES VARIABLES=BROADOCC_2 ORDER=A KEY=VALUE EMPTY=INCLUDE
TOTAL=YES POSITION=AFTER
/CRITERIA CILEVEL=95.

```

ECHO 'Managerial or professional occupations by level by those who have done Employability activities'.

CTABLES

```

/VLABELS VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6 ACEN3_7
ACEN3_8 LEVEL BROADOCC_2 DISPLAY=DEFAULT
/TABLE ACEN3_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]
+ ACEN3_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] + ACEN3_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_6
[COUNT F40.0, ROWPCT.COUNT PCT40.1]
+ ACEN3_7 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_8 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] BY LEVEL > BROADOCC_2
/CATEGORIES VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6
ACEN3_7 ACEN3_8 ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER MISSING=EXCLUDE
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
/CATEGORIES VARIABLES=BROADOCC_2 ORDER=A KEY=VALUE EMPTY=INCLUDE
TOTAL=YES POSITION=AFTER
/CRITERIA CILEVEL=95.

```

ECHO 'Managerial or professional occupations by level by those who have undertaken work during their study'.

CTABLES

```
/VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6 LEVEL  
BROADOCC_2 DISPLAY=DEFAULT
```

```
/TABLE ACEN4_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_2 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1]
```

```
+ ACEN4_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_4 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1] + ACEN4_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1]
```

```
+ ACEN4_6 [COUNT F40.0, ROWPCT.COUNT PCT40.1] BY LEVEL > BROADOCC_2
```

```
/CATEGORIES VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6  
ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES
```

```
POSITION=AFTER MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
/CATEGORIES VARIABLES=BROADOCC_2 ORDER=A KEY=VALUE EMPTY=INCLUDE  
TOTAL=YES POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

*Set filter for full time study

USE ALL.

```
COMPUTE filter_$=(ANALYSIS=1 AND E942=0 AND YEAR=2023).
```

```
VARIABLE LABELS filter_$ 'ANALYSIS=1 AND E942=0 AND YEAR=2023
```

```
'(FILTER)'
```

```
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
```

```
FORMATS filter_$ (f1.0).
```

```
FILTER BY filter_$.
```

```
EXECUTE.
```

* Recode further study into summary variable

```
RECODE FURSTUD (1=1) (2=2) (5=2) (99=99) (SYSMIS=SYSMIS) INTO FURSTUD_2.
```

```
VARIABLE LABELS FURSTUD_2 'Graduates in further full time study'.
```

```
EXECUTE.
```

```
ALTER TYPE FURSTUD_2 (F8).
```

VALUE LABELS FURSTUD_2 1 'In full-time study' 2 'Not in full time study'.

EXECUTE.

MISSING VALUES FURSTUD_2 (99).

ECHO 'PART 5 FURTHER STUDY'.

ECHO ' '.

ECHO ' Table 14'.

ECHO ' '.

*Table Further full time study

ECHO 'Full time study rate by level by those who have done WIL for academic credit and Employability activities'.

CTABLES

 /VLABELS VARIABLES=ACADEMICWIL EMPLOYABILITYACT LEVEL FURSTUD_2
 DISPLAY=DEFAULT

 /TABLE ACADEMICWIL [C][COUNT F40.0,
 ROWPCT.COUNT PCT40.1] + EMPLOYABILITYACT [C][COUNT F40.0, ROWPCT.COUNT
 PCT40.1] BY LEVEL [C] >

 FURSTUD_2 [C]

 /CATEGORIES VARIABLES=ACADEMICWIL EMPLOYABILITYACT ORDER=D KEY=LABEL
 EMPTY=INCLUDE

 MISSING=EXCLUDE

 /CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE

 /CATEGORIES VARIABLES=FURSTUD_2 ORDER=A KEY=VALUE EMPTY=INCLUDE
 TOTAL=YES POSITION=AFTER

 /CRITERIA CILEVEL=95.

ECHO 'Full time study rate by level by those who have done WIL for academic credit'.

CTABLES

```

/VLABELS VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 LEVEL FURSTUD_2
DISPLAY=DEFAULT

/TABLE ACEN1_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]
+ ACEN1_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN1_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] BY
LEVEL > FURSTUD_2

/CATEGORIES VARIABLES=ACEN1_1 ACEN1_2 ACEN1_3 ACEN1_4 ORDER=D KEY=LABEL
EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER MISSING=EXCLUDE

/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE

/CATEGORIES VARIABLES=FURSTUD_2 ORDER=A KEY=VALUE EMPTY=INCLUDE
TOTAL=YES POSITION=AFTER

/CRITERIA CILEVEL=95.

```

ECHO 'Full time study rate by level by those who have done Employability activities'.

CTABLES

```

/VLABELS VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6 ACEN3_7
ACEN3_8 LEVEL FURSTUD_2 DISPLAY=DEFAULT

/TABLE ACEN3_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_2 [COUNT F40.0,
ROWPCT.COUNT PCT40.1]
+ ACEN3_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_4 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] + ACEN3_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_6
[COUNT F40.0, ROWPCT.COUNT PCT40.1]
+ ACEN3_7 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN3_8 [COUNT F40.0,
ROWPCT.COUNT PCT40.1] BY LEVEL > FURSTUD_2

/CATEGORIES VARIABLES=ACEN3_1 ACEN3_2 ACEN3_3 ACEN3_4 ACEN3_5 ACEN3_6
ACEN3_7 ACEN3_8 ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES
POSITION=AFTER MISSING=EXCLUDE

/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE

/CATEGORIES VARIABLES=FURSTUD_2 ORDER=A KEY=VALUE EMPTY=INCLUDE
TOTAL=YES POSITION=AFTER

/CRITERIA CILEVEL=95.

```

ECHO 'Full time study rate by level by those who have undertaken work during their study'.

CTABLES

```
/VLABELS VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6 LEVEL  
FURSTUD_2 DISPLAY=DEFAULT
```

```
/TABLE ACEN4_1 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_2 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1]
```

```
+ ACEN4_3 [COUNT F40.0, ROWPCT.COUNT PCT40.1] + ACEN4_4 [COUNT F40.0,  
ROWPCT.COUNT PCT40.1] + ACEN4_5 [COUNT F40.0, ROWPCT.COUNT PCT40.1]
```

```
+ ACEN4_6 [COUNT F40.0, ROWPCT.COUNT PCT40.1] BY LEVEL > FURSTUD_2
```

```
/CATEGORIES VARIABLES=ACEN4_1 ACEN4_2 ACEN4_3 ACEN4_4 ACEN4_5 ACEN4_6  
ORDER=D KEY=LABEL EMPTY=INCLUDE TOTAL=YES
```

```
POSITION=AFTER MISSING=EXCLUDE
```

```
/CATEGORIES VARIABLES=LEVEL ORDER=A KEY=VALUE EMPTY=INCLUDE
```

```
/CATEGORIES VARIABLES=FURSTUD_2 ORDER=A KEY=VALUE EMPTY=INCLUDE  
TOTAL=YES POSITION=AFTER
```

```
/CRITERIA CILEVEL=95.
```

FILTER OFF.

USE ALL.

EXECUTE.