

# MEM31922 Certificate III in Engineering – Fabrication Trade

## DESCRIPTION

This qualification defines the skills and knowledge required of an Engineering Tradesperson - Fabrication within metal, engineering, manufacturing and associated industries. The qualification has been specifically developed to meet the needs of apprentices in the above trade.

This qualification must be undertaken through a Training Contract or through formal trade recognition assessment processes.

Assessment of some units of competency must, where indicated, include evidence of the candidate's performance in a functioning workplace where there is a sufficient range of appropriate tasks and materials to cover the scope of application of those units. All outcomes must reflect the standard of performance inherent in the job.

In some jurisdictions, units in this qualification may relate to licensing or regulatory requirements. Licensing and regulatory information is included in the relevant units of competency.

No licensing, legislative or certification requirements apply to this qualification at the time of publication. Local regulations should be checked.

## ELIGIBILITY/ENTRY REQUIREMENTS

To ensure you have the right skills and support to succeed in your course, a Language, Literacy, Numeracy and Digital Literacy (LLND) evaluation helps identify any areas where you may need additional support to help you achieve your goals.

To gain entry into course code course name, candidates require:

- To be an Apprentice who has entered a Training Contract with their employer and Australian Apprenticeship Support Network NT.

## DELIVERY DETAILS

Location(s)	Duration*	Study mode
Casuarina campus	3 years	Face to face
Alice Springs campus	Block delivery 3 to 4 x 2 week blocks over 3 years	Simulated Workplace Workplace

\* Duration will vary depending on how long a student takes to reach the required competency level.

## FEES

Fee Type	2025 Course Fees
NT Government Supported*	\$3,589.00 - \$3,663.00
Full Fee	\$15,393.90 - \$15,711.30

\*This course is supported by the NT Government for domestic [eligible](#) students who are NT residents. A limited number of NT Government supported places are available, so secure your place now.

Fees shown are indicative and subject to change annually. Actual course fees may vary depending on the units chosen. International non-student visa-holders; study eligibility needs to be verified before enrolment. Fees may vary depending on the visa type. The course fee rates will vary for commercial contract arrangements.

For further clarification and information on fees, fee exemptions, payment options, instalment plans, and refunds, contact CDU on 1800 061 963 or refer to [TAFE Fees and Payments](#)

## ASSESSMENT

Assessments vary with each unit. You will be provided with an assessment guide.

## RECOGNITION OF PRIOR LEARNING (RPL)

RPL is a process that determines whether the skills, knowledge and experience you've gained through your previous study, work or life experience can count towards a vocational training qualification at CDU. For more information, refer to [VET RPL](#).

## RESOURCES

Students are issued with workbooks and handouts for the duration of the course.

## STUDY AND CAREER PATHWAYS

Further training pathways from this qualification include but are not limited to MEM40119 Certificate IV in Engineering.

Possible occupations relevant to this qualification include:

- Metal fabrication tradesman
- Sheetmetal worker
- Boilermaker
- Welder

## QUALIFICATION CONTENT

To achieve MEM31922 Certificate III in Engineering – Fabrication Trade (Boilermaking/welding), units of competency to the value of 96 points must be achieved, comprising all core units of competency (totaling 33 points), elective units of competency to a minimum value of 40 points from Group D, and elective units of competency to a maximum value of 23 points from Group H to bring the total value to 96 points.

To be awarded the MEM31922 Certificate III in Engineering – Fabrication Trade (Sheetmetal working), units of competency to the value of 96 points must be achieved, comprising of all core units of competency (totaling 33 points), elective units of competency to a minimum value of 40 points from Group E, and elective units of competency to a maximum value of 23 points from Group H to bring the total value to 96 points.

**CORE UNITS**

		POINTS
MEM09002*	Interpret Technical drawing	4
MEM11011*	Undertake manual handling	2
MEM12023*	Perform Engineering measurement	5
MEM12024*	Perform computations	3
MEM13015	Work safely and effectively in manufacturing and engineering	2
MEM14006*	Plan work activities	4
MEM16006*	Organise and communicate information	2
MEM16008*	Interact with computing technology	2
MEM17003*	Assist in the provision of on-the-job training	2
MEM18001*	Use hand tools	2
MEM18002*	Use power tools/handheld operations	2
MSMENV272	Participate in environmentally sustainable work practices	3

**ELECTIVE UNITS – BOILERMAKER / WELDER**

<b>Group D</b>	<b>(minimum of 40 points)</b>	
MEM05005*	Carry out mechanical cutting	2
MEM05007*	Perform manual heating and thermal cutting	2
MEM05010*	Apply fabrication, forming and shaping techniques	8
MEM05012*	Perform routine manual metal arc welding	2
MEM05037*	Perform geometric development	6
MEM05049*	Perform routine gas tungsten arc welding	2
MEM05050*	Perform routine gas metal arc welding	2
MEM05056*	Perform routine flux core arc welding	2
MEM05089*	Assemble fabricated components	8
MEM05094*	Repair, replace and/or modify fabrications	4
MEM12007*	Mark off/out structural fabrications and shapes	4
<b>Group H</b>	<b>(maximum of 23 points)</b>	
MEM05052*	Apply safe welding practices	4
MEM05085*	Select welding processes	2
MEM05090*	Weld using manual metal arc welding process	4
MEM05091*	Weld using gas metal arc welding process	4
MEM05092*	Weld using gas tungsten arc welding process	4
MEM05096*	Weld using flux core arc welding process	4
<b>Unnamed</b>		
MEM03003*	Perform sheet and plate assembly	4

**ELECTIVE UNITS – SHEETMETAL WORK TRADE SPECIALIST**

<b>Group E</b>	<b>(minimum of 40 points)</b>	
MEM05005*	Carry out mechanical cutting	2
MEM05007*	Perform manual heating and thermal cutting	2
MEM05010*	Apply fabrication, forming, and shaping techniques	8
MEM05012*	Perform routine manual metal arc welding	2

MEM05037*	Perform geometric development	6
MEM05049*	Perform routine gas tungsten arc welding	2
MEM05050*	Perform routine gas metal arc welding	2
MEM05052*	Apply safe welding practices	4
MEM05056*	Perform routine flux core arc welding	2
MEM05085*	Select welding processes	2
MEM05089*	Assemble fabricated components	8
<b>Group H</b>	<b>(maximum of 23 Points)</b>	
MEM05091*	Weld using gas metal arc welding process	4
MEM05092*	Weld using gas tungsten arc welding process	4
MEM08010*	Manually finish/polish materials	6
MEM12007*	Mark off/out structural fabrications and shapes	4
MEM18011*	Shutdown and isolate machines and equipment	2
MEM05094*	Repair, replace and/or modify fabrications	4
<b>Unnamed</b>		
MEM03003*	Perform sheet and plate assembly	4

\*Pre-requisite units are listed below;

Unit Code:	Pre-requisite unit/s:
MEM09002	MEM12023, MEM12024, MEM13015, MEM16006
MEM11011, MEM12023, MEM12024, MEM14006, MEM16008, MEM17003, MEM05052, MEM05085	MEM13015, MEM16006
MEM16006	MEM13015
MEM18001, MEM18002, MEM18011, MEM05012, MEM05049, MEM05050, MEM05056	MEM11011, MEM13015, MEM16006
MEM05005	MEM11011, MEM12023, MEM13015, MEM16006, MEM18001
MEM05007	MEM09002, MEM11011, MEM12023, MEM13015, MEM16006
MEM05010	MEM05037, MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002
MEM05037, MEM12007	MEM09002, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006
MEM05089, MEM05094	MEM05005, MEM05007, MEM05052, MEM05085, MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002 Plus, one or more of the below; MEM05090, MEM05091, MEM05092, MEM05096, MEM05097
MEM05090	MEM05012, MEM05052, MEM05085, MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002

MEM05091	MEM05050, MEM05052, MEM05085, MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002
MEM05096	MEM05052, MEM05056, MEM05085, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002
MEM03003	MEM11011, MEM13015, MEM16006, MEM18001, MEM18002

## WITHDRAWING FROM A QUALIFICATION

You may withdraw from this qualification and receive, where relevant, a Statement of Attainment for all units of competency you have successfully completed.

## SUPPORT SERVICES

The University supplies support for students in many areas, including Accommodation, Careers and Employability, Counselling, Disability Services, Student Advocacy, Indigenous Tutorial Support Services, International Student Support Services, Library Services, and VET Learner Support Services.

More information is available at [Student Support](#).

## CONTACT DETAILS

VET Engineering and Construction

E. [vet.mte@cdu.edu.au](mailto:vet.mte@cdu.edu.au)  
T. 08 8946 7507 (CAS) 08 8959 5363 (ASP)  
W. <https://www.cdu.edu.au/study/essentials>

For further information regarding student life at CDU, please refer to <https://www.cdu.edu.au/study/student-life>.