MEM31925 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.

The skills associated with this qualification are intended to apply to a wide range of fabrication work, including undertaking metal fabrication, structural steel erection, sheetmetal work, welding, blacksmithing and surface finishing.

This qualification is designed to provide an industry recognised skills profile related to trade work as an Engineering Tradesperson - Fabrication.

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

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)	Casuarina, Alice Springs
Duration*	3 years (3 to 4 x 2-week blocks per year)
Study mode ^^	Face to face, simulated workplace, workplace

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Dates ^	Term 3: 23/07/2026 to 09/09/2026 Term 4: 13/10/2026 to 27/11/2026 *Apprentices will receive an individualised call-up notification letter.*
Attendance ^	Block Delivery Monday to Friday 8.00 am to 4:20 pm

** Duration may vary depending on how long a student takes to reach the required competency level.*
^ Course timetable will be provided on application for the course.
^^Information relating to study modes can be found in the 2026 TAFE Student Guide

FEES

Fee Type	2026 Course Fees
NT Government Supported*	$3,811.50 - $4,042.50
Full Fee	$15,859.80- $16,821.80

*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. For 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

Skills and knowledge assessments are an essential step in progressing through your course. You may be assessed in a number of ways including written assessment, questioning, portfolios, work samples, direct observation, practical assessments and third-party feedback.

Throughout your course you will receive information about assessments including how, when and where assessments will be conducted.

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, VET RPL.

CREDIT TRANSFER (CT)

Charles Darwin University as a Registered Training Organisation recognises the Australian Qualifications Framework qualifications and Statement of Attainments issued by any other Australian Registered Training Organisation (RTO).

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Students are encouraged to submit any requests for credit from previous studies at the time of enrolment, to ensure they are not enrolling in units they may not need to undertake.

RESOURCES

Students are issued with learning materials and handouts relevant to each unit during their scheduled block.

Students will have 24/7 access to assessments and learning resources on Learnline, CDU's online learning platform. Before you can start using Learnline, you'll need to make sure that your computer has the correct setup. For more details: https://www.cdu.edu.au/current-students/services/learnline.

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 MEM31925 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 MEM31925 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

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MEM18002*	Use power tools/handheld operations	2
MSMENV272	Participate in environmentally sustainable work practices	3

ELECTIVE UNITS – BOILERMAKER / WELDER

Group D		
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
MEM05072*	Perform advanced welding using manual arc welding process	4
MEM05073*	Perform advanced welding using gas metal arc welding process	4
MEM05084*	Perform advanced welding using flux core welding process	4
MEM05089*	Assemble fabricated components	8
Group H		
MEM05056*	Perform routine flux core arc welding	2
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

ELECTIVE UNITS – SHEETMETAL WORK TRADE SPECIALIST

Group E	(minimum of 40 points)	
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
MEM05092*	Weld using gas tungsten arc welding process	4
Group H	(maximum of 23 Points)	
MEM05091*	Weld using gas metal arc welding process	4
MEM05094*	Repair, replace and/or modify fabrications	4
MEM08010*	Manually finish/polish materials	6

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MEM12007*	Mark off/out structural fabrications and shapes	4
MEM05073	Perform advanced welding using gas metal arc welding process *(alternative elective for Alice Spring only)*	4
Unnamed		
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, MEM05012, MEM05049, MEM05050, MEM05056	MEM11011, MEM13015, MEM16006
MEM05005	MEM11011, MEM12023, MEM13015, MEM16006, MEM18001
MEM05007	MEM09002, MEM11011, MEM12023, MEM13015, MEM16006
MEM12007	MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006
MEM05010	MEM05037, MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002
MEM08010	MEM11011, MEM13015, MEM16006, MEM18001
MEM05037	MEM09002, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006
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
MEM05089	MEM05005, MEM05007, MEM05052, MEM05085, MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002 Plus, one or more of the below; MEM05090, MEM05091, MEM05092, 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
MEM05092	MEM05049, 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

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MEM05072	MEM05007, MEM05012, MEM05090, MEM05085, MEM05052, MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002
MEM05073	MEM05007, MEM05050, MEM05052, MEM05085, MEM05091, MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002
MEM05084	MEM05007, MEM05052, MEM05056, MEM05085, MEM05096, MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, 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 provides support for students in many areas, including Accommodation, Careers and Employability, Counselling, Disability Services, Financial Support 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 - Life, Health and Wellbeing.

CONTACT DETAILS

VET Engineering and Construction

E. vet.mte@cdu.edu.au
T. 08 8946 7507 (CAS) 08 8959 5465 (ASP)
W. https://www.cdu.edu.au/tafe

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

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