

MEM30219 Certificate III in Engineering – Mechanical Trade

DESCRIPTION

This qualification defines the skills and knowledge required of an engineering tradesperson – mechanical within metal, engineering, manufacturing and associated industries. The qualification has been specifically developed for 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 mechanical trade work, including undertaking fitting, assembly, manufacture, installation, modification, testing, fault finding, maintenance and service of mechanical equipment, machinery and the use of machine tools.

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

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.

No licensing, legislative or certification requirements apply to this qualification at the time of publication. However, in some jurisdictions units in this qualification may relate to licensing or regulatory requirements. 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 MEM30219 Certificate III in Engineering – Mechanical Trade, 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
Duration*	3 Years Block delivery 3 to 4 x 2-week blocks over 3 years
Study mode ^^	Face to face, simulated workplace, workplace

Dates ^	Term 1: 11/02/2026 to 03/04/2026 Term 2: 14/04/2026 to 02/06/2026 Term 3: 23/07/2026 to 09/09/2026 Term 4: 13/10/2026 to 27/11/2026 <i>Apprentices will receive an individual call-up notification letter.</i>
Attendance	Block Delivery Monday to Friday 8.00 am - 4:20 pm

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

^ A course timetable/study plan 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*	\$3,696.00 - \$3,850.00
Full Fee	\$15,379.20 - \$16,020.00

*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).

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.

STUDY AND CAREER PATHWAYS

Further training pathways from this qualification include but are not limited to MEM40119 Certificate IV in Engineering and MEM50119 Diploma of Engineering – Advance Trade (MEM50119 not offered by CDU).

Possible occupations relevant to this qualification include:

- Engineering Tradesperson – Mechanical

QUALIFICATION CONTENT

To achieve MEM30219 Certificate III in Engineering – Mechanical Trade, a total of ninety-six (96) points must be completed comprising of thirty-three (33) core and sixty-three (63) elective points as detailed in the packaging rules and listed below.

CORE UNITS

POINTS

MEM09002*	Interpret technical drawing	4
MEM11011*	Undertake manual handling	2
MEM12023*	Perform engineering measurements	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

POINTS

MEM05005*	Carry out mechanical cutting	2
MEM05007*	Perform manual heating and thermal cutting	2
MEM05012*	Perform routine manual metal arc welding	2
MEM05050*	Perform routine gas metal arc welding	2
MEM07005*	Perform general machining	8
MEM07006*	Perform lathe operations	4
MEM07007*	Perform milling operations	4
MEM07021*	Perform complex lathe operations	4
MEM12003*	Perform precision mechanical measurement	2

MEM12006*	Mark off/out (general engineering)	4
MEM18003*	Use tools for precision work	4
MEM18005*	Perform fault diagnosis, installation and removal of bearings	4
MEM18006*	Perform precision fitting of engineering, components	6
MEM18007*	Maintain and repair mechanical drives and mechanical transmission assemblies	4
MEM18008*	Balance equipment	2
MEM18009*	Perform precision levelling and alignment of machines and engineering components	4
MEM18013*	Perform gland packing	2
MEM18020*	Maintain hydraulic system components	4
MEM18055*	Dismantle, replace and assemble engineering components	3

**Pre-requisite units are listed below;*

Unit Code:	Pre-requisite unit/ss:
MEM16006	MEM13015
MEM11011, MEM14006, MEM16008, MEM12024 MEM12023, MEM17003	MEM13015, MEM16006
MEM18001, MEM18002, MEM05012, MEM05050 MEM05005, MEM18013	MEM13015, MEM16006, MEM11011
MEM09002	MEM13015, MEM16006, MEM12024, MEM12023
MEM05007	MEM13015, MEM16006, MEM11011, MEM12023, MEM09002
MEM18055	MEM13015, MEM16006, MEM11011, MEM12023, MEM18001, MEM09002, MEM18002
MEM18003	MEM13015, MEM16006, MEM11011, MEM12023, MEM18001, MEM18002
MEM18006	MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002, MEM18003, MEM18055
MEM12006	MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006
MEM18008, MEM18005, MEM18007, MEM18009, MEM18020	MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002, MEM18003, MEM18006, MEM18055
MEM07005	MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001
MEM07006, MEM07007	MEM07005, MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001
MEM07021	MEM07005, MEM07006, MEM09002, MEM11011, MEM12003, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001
MEM12003	MEM11011, MEM12023, MEM13015, MEM16006

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>.