

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

There are no entry requirements for this qualification. It is assumed that the learner is engaged as an apprentice under a Training Contract and that the learner is receiving appropriate structured on-the-job training while undertaking this qualification.

This qualification may be accessed by direct entry. Credit may be granted towards this qualification by those who have completed MEM10119 Certificate I in Engineering, MEM10219 Certificate I in Boating Services, MEM20119 Certificate II in Engineering, MEM20219 Certificate II in Engineering - Production Technology or other relevant qualifications. Credit towards this qualification may also include units of competency contained within relevant skill sets and Statements of Attainment.

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

DELIVERY DETAILS

Location(s)	Duration*	Study mode
Casuarina	24-weeks full-time, usually spaced over 3 years.	Face to face theory, and simulated workshop practice

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

2022 FEES

The 2022 indicative fee for this course is between \$3,360.00 - \$3,640.00 for eligible students and receive an NT Domestic Subsidised place or between \$19,200.00 - \$20,800.00 for Domestic Full fee places. Actual fees will vary according to your choice of units.

Please note: A limited number of NT Government subsidy places are available for eligible NT domestic students, so contact us now to secure your place for 2022.

Fees are subject to change annually. Indicative government-subsidised and full course fees are shown on this document. For further clarification and information on fees, payment options, instalment plans, and refunds, contact CDU on 1800 061 963 or refer to [VET 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, [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 MEM40119 Certificate IV in Engineering and MEM50119 Diploma of Engineering - Advanced Trade or other relevant qualifications.

Possible occupations relevant to this qualification include:

- Engineering Tradesperson – Mechanical

QUALIFICATION CONTENT

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

CORE UNITS

MEM09002*	Interpret technical drawing
MEM11011*	Undertake manual handling
MEM12023*	Perform engineering measurements
MEM12024*	Perform computations
MEM13015	Work safely and effectively in manufacturing and engineering
MEM14006*	Plan work activities

MEM16006*	Organise and communicate information
MEM16008*	Interact with computing technology
MEM17003*	Assist in the provision of on-the-job training
MEM18001*	Use hand tools
MEM18002*	Use power tools/hand held operations
MSMENV272	Participate in environmentally sustainable work practices

ELECTIVE UNITS

MEM05005*	Carry out mechanical cutting
MEM05007*	Perform manual heating and thermal cutting
MEM05012*	Perform routine manual metal arc welding
MEM05050*	Perform routine gas metal arc welding
MEM07005*	Perform general machining
MEM07006*	Perform lathe operations
MEM07007*	Perform milling operations
MEM07021*	Perform complex lathe operations
MEM12003*	Perform precision mechanical measurement
MEM12006*	Mark off/out (general engineering)
MEM18003*	Use tools for precision work
MEM18005*	Perform fault diagnosis, installation and removal of bearings
MEM18006*	Perform precision fitting of engineering components
MEM18007*	Maintain and repair mechanical drives and mechanical transmission assemblies
MEM18008*	Balance equipment
MEM18009*	Perform precision levelling and alignment of machines and engineering components
MEM18013*	Perform gland packing
MEM18020*	Maintain hydraulic system components
MEM18055*	Dismantle, replace and assemble engineering components
MEM18021*	Maintain hydraulic systems

Units with * have pre-requisite units. Discuss the unit selection with the lecturer for this qualification.

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

E. student.central@cdu.edu.au
T. 1800 061 963 (free call)
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>.