

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.

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

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.

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)	Duration*	Study mode
Casuarina campus	8 weeks per year for 3 years	Face to face Simulated workplace Workplace

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

FEES

Fee Type	2024 Course Fees
NT Government Supported*	\$3,219.00 - \$3,367.00
Full Fee	\$17,400.00 - \$18,200.00

*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. International non-student visa-holders; study eligibility needs to be verified before enrolment. Fees may vary depending on the visa type.

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, [VET RPL](#).

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.

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. The electives offered may vary between campuses.

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/hand held 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, MEM11010	MEM13015, MEM16006, MEM11011
MEM05005, MEM18013	MEM13015, MEM16006, MEM11011, MEM12023, MEM18001
MEM09002	MEM13015, MEM16006, MEM11011, MEM12023
MEM05007	MEM13015, MEM16006, MEM11011, MEM12023, MEM09002
MEM18055	MEM13015, MEM16006, MEM11011, MEM12023, MEM18001, MEM09002, MEM18002
MEM18003	MEM13015, MEM16006, MEM11011, MEM12023, MEM18001, MEM18002
MEM18006	MEM13015, MEM16006, MEM11011, MEM12023 MEM18001, MEM09002, MEM18002, MEM18003 MEM18055

MEM12006	MEM13015, MEM16006, MEM11011, MEM12023, MEM09002, MEM12024
MEM18008	MEM09002, MEM11011, MEM12023, MEM12024, MEM13015, MEM14006, MEM16006, MEM18001, MEM18002, MEM18003, MEM18006, MEM18055
MEM07005, MEM18005, MEM18007, MEM18009, MEM18020	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

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

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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>.