

MEM30219 - Certificate III in Engineering - Mechanical Trade



Overview

This qualification covers the skills and knowledge required for employment as a Mechanical Engineering Tradesperson within the metal, engineering, manufacturing and associated industries.

Duration

This program is offered as a 48 Month (4year) Australian Apprenticeship Training Contract.

Note: usually completed in approx. 3.5 years

You will be assigned an ATEC Case Manager who will work with you and your employer to develop a Training Plan that suits the needs of you and your employer.

Assessment

There are theory and practical training and assessment components to the course. Skills will be trained and assessed through a blend of off-the-job (trade school), self paced study and on-the-job training.

Entry Requirements

Participants **MUST:**

- Be signed into an approved Training Contract with an employer through an Australian Apprenticeship Support Network
- Be 16 years or older for a standard apprenticeship training contract; or
- 15 years or older for a school based apprenticeship training contract
- Be an Australian/New Zealand Citizen or hold an eligible VISA.
- Have the ability to read, write and understand basic English and carry out basic mathematical calculations.
- Have the physical ability to perform practical fabrication skills.

Course Fees

Please contact ATEC on 1300 112 832 for further information on course fees. *Note: Students are required to contribute towards tuition fees and other incidentals such as text books.*

Subsidised Training

Subsidised Fee

\$3100.00 (GST exempt)

This course may be subsidised by the Government of South Australia for eligible students.

Please contact ATEC so we can assess your eligibility
skills.sa.gov.au

Learner Requirements

- Provide your Unique Student Identifier (USI). To apply for a USI go to <https://www.usi.gov.au/your-usi/create-usi>
- Provision of Australian legal photo identification for enrolment purposes
- Applicants will be required to attend an enrolment session and undertake a Literacy and Numeracy Assessment at a level required to successfully complete the qualification. *Potential clients who are identified as not meeting course requirements will be assisted with referral to appropriate support services.*

PPE (Personal Protective Equipment)

To be supplied by participant:

- Safety Boots (steel cap)
- Safety glasses (non-tinted)
- Long pants
- Long-sleeved shirt (for WHS reasons please do not wear excessively loose clothing)
- High visibility vest (high visibility shirt/jumper is acceptable)

Outcome

On successful completion of all requirements of this course, learners will be issued with:

- 1) A Record of Results; and a
- 2) Certificate for the MEM30219 - Certificate III in Engineering - Mechanical Trade. **Note:** *Students who do not complete all the requirements of this course will receive a Statement of Attainment for the units of competency that have been successfully achieved.*

Delivery Locations

- Ottoway

Pre-enrolment information

Important information for prospective students in regards to ATEC Policies is available at [Certificate III in Engineering | ATEC](#)

How to apply

Applications and enquiries can be made:

- Online – <https://atec.asn.au/>
- Email – bookings@atec.asn.au
- Call ATEC on 1300 112 832
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Packaging rules - 12 core units and a number of electives to make a minimum of 73 points in total

Core units	Unit Title	Nominal Hours	Points
MEM13015	Work safely and effectively in manufacturing and engineering	40	2
MEM16006	Organise and communicate information	20	2
MEM11011	Undertake manual handling	20	2
MEM09002	Interpret technical drawing	40	4
MEM12023	Perform engineering measurements	30	5
MEM12024	Perform computations	30	3
MEM14006	Plan work activities	40	4
MEM16008	Interact with computing technology	20	2
MEM17003	Assist in the provision of on-the-job training	20	2
MEM18001	Use hand tools	20	2
MEM18002	Use power tools/hand held operations	20	2
MSMENV272	Participate in environmentally sustainable work practices	30	3
Group A - Mechanical Trade Stream units			
MEM05005	Carry out mechanical cutting	20	2
MEM07005	Perform general machining	80	8
MEM07006	Perform lathe operations	40	4
MEM07007	Perform milling operations	40	4
MEM12006	Mark off/out (general engineering)	40	4
MEM18003	Use tools for precision work	40	4
MEM18005	Perform fault diagnosis, installation and removal of bearings	40	4
MEM18006	Perform precision fitting of engineering components	60	6
MEM18007	Maintain and repair mechanical drives and mechanical transmission assemblies	40	4
MEM18009	Perform precision levelling and alignment of machines and engineering components	40	4
MEM18012	Perform installation and removal of mechanical seals	20	2
MEM18013	Perform gland packing	20	2
MEM18018	Maintain pneumatic system components	40	4
MEM18020	Maintain hydraulic system components	40	4
MEM18055	Dismantle, replace and assemble engineering components	30	3
MEM05012	Perform routine manual metal arc welding	20	2
MEM05050	Perform routine gas metal arc welding	20	2
Total Hours/Points		960	96

Sample training plan – Fitter Machinist



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South Australia**



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