

# 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](http://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](mailto:bookings@atec.asn.au)
- **Call ATEC on 1300 112 832**

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**Ottoway**  
275 Grand Junction Rd  
Ottoway SA 5013

**Lonsdale**  
5 Refinery Road  
Lonsdale SA 5160

[www.atec.asn.au](http://www.atec.asn.au)  
T 1300 112 832  
E [bookings@atec.asn.au](mailto:bookings@atec.asn.au)



**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
<b>Group A - Mechanical Trade Stream units</b>			
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
<b>Total Hours/Points</b>		<b>960</b>	<b>96</b>

Sample training plan – Fitter Machinist



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Quality  
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