

# MEM30305 – Certificate III in Engineering – Fabrication Trade



## Overview

This qualification covers the skills and knowledge required for employment as a Fabrication 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

This course may be subsidised by the Government of South Australia for eligible students. Visit [www.skills.sa.gov.au](http://www.skills.sa.gov.au) for eligibility criteria. **Note:** Tuition and incidental fees will still require contribution by learners if eligible for funding.

## 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)
- Drawing equipment
- Welding gloves and a welding helmet

## 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 MEM30305 Certificate III Engineering - Fabrication 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 <http://www.atec.asn.au/pre-enrolment-information.html>

## How to apply

Applications and enquiries can be made:

- Online – [www.atec.asn.au](http://www.atec.asn.au)
- Email – [bookings@atec.asn.au](mailto:bookings@atec.asn.au)
- Call ATEC on 1300 112 832

### Ottoway

275 Grand Junction Road, Ottoway  
South Australia 5013

### Lonsdale

5 Refinery Road, Lonsdale  
South Australia 5160

### Port Adelaide

12 Todd Street, Port Adelaide  
South Australia 5015

## MEM30305 – Certificate III in Engineering – Fabrication Trade

Sample training plan – Generic Fabricator

### Packaging rules

12 core units and a number of electives to make a minimum of 73 pints in total

Core units	Unit Title	Nominal Hours	Points
MEM13014A	Apply principles of occupational health and safety in the work environment	10	0
MEM12023A	Perform engineering measurements	30	0
MEM12024A	Perform computations	30	0
MEM14004A	Plan to undertake a routine task	10	0
MEM14005A	Plan a complete activity	20	0
MEM15002A	Apply quality systems	20	0
MEM15024A	Apply quality procedures	10	0
MEM16006A	Organise and communicate information	20	0
MEM16007A	Work with others in a manufacturing, engineering or related environment	10	0
MEM16008A	Interact with computing technology	20	0
MEM17003A	Assist in the provision of on the job training	20	0
MSAENV272B	Participate in environmentally sustainable work practices	30	0
<b>Group A - Fabrication Trade Stream Units</b>			
MEM18001C	Use hand tools	20	2
MEM18002B	Use power tools/hand held operations	20	2
MEM05012C	Perform routine manual metal arc welding	20	2
MEM05049B	Perform routine gas tungsten arc welding	20	2
MEM05050B	Perform routine gas metal arc welding	20	2
MEM09002B	Interpret technical drawing	40	4
MEM05007C	Perform manual heating and thermal cutting	20	2
MEM05005B	Carry out mechanical cutting	20	2
MEM05051A	Select welding processes	20	2
MEM05052A	Apply safe welding practices	40	4
MEM05015D	Weld using manual metal arc welding process	40	4
MEM05017D	Weld using gas metal arc welding process	40	4
MEM05019D	Weld using gas tungsten arc welding process	40	4
MEM05037C	Perform geometric development	60	6
MEM05010C	Apply fabrication, forming and shaping techniques	80	8
MEM12007D	Mark off/out structural fabrications and shapes	40	4
MEM03003B	Perform sheet and plate assembly	40	4
MEM05018C	Perform advanced welding using gas metal arc welding process	40	4
MEM05011D	Assemble fabricated components	80	8
MEM05036C	Repair/replace/modify fabrications	40	4
<b>Group B - Trade Specialisation Units</b>			
MEM11011B	Undertake manual handling	20	2
<b>Total Hours/Points</b>		<b>990</b>	<b>76</b>

**Please note: All enrolments in this qualification will be required to transition to the updated qualification MEM30319 - Certificate III in Engineering – Fabrication Trade prior to 31 December 2020.**

Version April 2020



Supported by  
**Government of  
South Australia**



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