

MEM31922 – Certificate III in Engineering – Fabrication Trade

RTO CODE: 0022



Qualification status: superseded by MEM31925

Queensland Offering

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 (4-year) Australian Apprenticeship Training Contract.

Note: usually completed in approx. 3.5 years

Assessment

There are theory and practical training, and assessment components to the course. Skills will be trained and assessed through 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 (Career Start Apprenticeship/Traineeship Pathway)

Full Fee (Co-Contribution)

Fees are charged at \$1.60 per nominal hour for each unit of competency/module.

(Typical training plan is approx. 1000 Hours – Full Fee: \$1600)

- Co-contribution fees are set by the Department.
- Co-contribution fees must be calculated at the commencement of each unit or module.
- The Co-contribution fee applies consistently across all Skills Assure Suppliers delivering apprenticeships and traineeships.

Partial Fee Exemption (Co-Contribution)

40 per cent of the fees are charged where the participant falls into one or more of the following exemption categories:

- The participant was or will be under 17 years of age at the end of February in the year in which the SAS provides training and is not at school and has not completed year 12.
- The participant holds a Health Care, Veteran or Pensioner Concession Card issued under Commonwealth law, or is the partner or a dependant of a person who holds such a card and is named on the card.
- Holds an official form issued under Commonwealth law confirming that the individual, their partner or the person of whom they are a dependant, is entitled to concessions under a Health Care, Veteran or Pensioner Concession Card.
- The participant identifies as Aboriginal or Torres Strait Islander.

Full Fee Exemption (Co-Contribution)

No fees are charged where the participant falls into one or more of the following categories:

- A credit transfer applies to a unit of competency/module.
- Transitional gap training applies when transitioning an apprentice/trainee from a superseded qualification or unit of competency where a previously completed unit of competency is identified as similar but not equivalent.
- The participant is a school-based apprentice or trainee.
- The participant is under 25 years of age at the commencement of their apprenticeship/traineeship.

For additional information and eligibility requirements, please refer to the links below:

[Check your eligibility for government-funded training | Education | Queensland Government](#)
[Career Start | Education | Queensland Government](#)

Version June 2026

Ottoway

275 Grand Junction Rd
Ottoway SA 5013

Lonsdale

5 Refinery Road
Lonsdale SA 5160

www.atec.asn.au

T 1300 112 832
E bookings@atec.asn.au

Learner Support

Support is available to students who undertake this qualification.

Please contact ATEC either by clicking [here](#), calling on 1300 112 832 or speaking with your trainer for more information.

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 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 MEM31922 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.*

Approved Delivery Location

- Queensland
Address: [B&R Enclosures Queensland](#), 51 Stradbroke St, Heathwood QLD 4110

Pre-enrolment information

Important information for prospective students regarding ATEC Policies is available at [Certificate III Engineering | Fabrication | Apprenticeships Adelaide \(atec.asn.au\)](#)

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**

Packaging rules - <https://training.gov.au/Training/Details/MEM31922>



Proud to be a Queensland Government subsidised training provider

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E bookings@atec.asn.au



To be awarded the [MEM31922 Certificate III in Engineering – Fabrication Trade](#), units of competency to the value of 96 points must be achieved, chosen as outlined below:

- all core units of competency listed below (totalling 33 points)
- elective units of competency to a minimum value of 40 points from Groups A, B, C, D, E, F and G as described below
- elective units of competency to a maximum value of 23 points from Group H to bring the total value to 96 points.

Core units	Unit Title	Unit Type	Points
MEM13015	Work safely and effectively in manufacturing and engineering	Core	2
MEM16006	Organise and communicate information	Core	2
MEM12023	Perform engineering measurements	Core	5
MEM12024	Perform computations	Core	3
MEM11011	Undertake manual handling	Core	2
MEM18001	Use hand tools	Core	2
MEM18002	Use power tools/hand held operations	Core	2
MSMENV272	Participate in environmentally sustainable work practices	Core	3
MEM09002	Interpret technical drawing	Core	4
MEM14006	Plan work activities	Core	4
MEM16008	Interact with computing technology	Core	2
MEM17003	Assist in the provision of on-the-job training	Core	2
Elective Units	Unit Title		
MEM03003	Perform sheet and plate assembly	Imported	4
MEM05005	Carry out mechanical cutting	Group B	2
MEM05007	Perform manual heating and thermal cutting	Group D	2
MEM05010	Apply fabrication, forming and shaping techniques	Group A	8
MEM05012	Perform routine manual metal arc welding	Group B	2
MEM05037	Perform geometric development	Group B	6
MEM05049	Perform routine gas tungsten arc welding	Group E	2
MEM05050	Perform routine gas metal arc welding	Group E	2
MEM05052	Apply safe welding practices	Group E	4
MEM05073	Perform advanced welding using gas metal arc welding process	Group H	4
MEM05074	Perform advanced welding using gas tungsten arc welding process	Group H	4
MEM05085	Select welding processes	Group E	2
MEM05089	Assemble fabricated components	Group E	8
MEM05090	Weld using manual metal arc welding process	Group E	4
MEM05091	Weld using gas metal arc welding process	Group E	4
MEM05092	Weld using gas tungsten arc welding process	Group B	4
MEM12007	Mark off/out structural fabrications and shapes	Group H	4

To be awarded the **MEM31922 Certificate III in Engineering – Fabrication Trade (Boiler making)**, units of competency to the value of 96 points must be achieved, chosen as outlined below:

- all core units of competency listed below (totalling 33 points)
- elective units of competency to a minimum value of 40 points from Group B as described below
- elective units of competency to a maximum value of 23 points from Group H to bring the total value to 96 points.

Code	Name	Unit Type	Points
MEM09002	Interpret technical drawing	Core	4
MEM11011	Undertake manual handling	Core	2
MEM12023	Perform engineering measurements	Core	5
MEM12024	Perform computations	Core	3
MEM13015	Work safely and effectively in manufacturing and engineering	Core	2
MEM14006	Plan work activities	Core	4
MEM16006	Organise and communicate information	Core	2
MEM16008	Interact with computing technology	Core	2
MEM17003	Assist in the provision of on-the-job training	Core	2
MEM18001	Use hand tools	Core	2
MEM18002	Use power tools/hand held operations	Core	2
MSMENV272	Participate in environmentally sustainable work practices	Core	3
Code	Name	Unit Type	Points
MEM05005	Carry out mechanical cutting	Group B	2
MEM05012	Perform routine manual metal arc welding	Group B	2
MEM05049	Perform routine gas tungsten arc welding	Group B	2
MEM05050	Perform routine gas metal arc welding	Group B	2
MEM05007	Perform manual heating and thermal cutting	Group B	2
MEM05085	Select welding processes	Group B	2
MEM05052	Apply safe welding practices	Group B	4
MEM05091	Weld using gas metal arc welding process	Group B	4
MEM05090	Weld using manual metal arc welding process	Group B	4
MEM05092	Weld using gas tungsten arc welding process	Group B	4
MEM05037	Perform geometric development	Group B	6
MEM05089	Assemble fabricated components	Group B	8
MEM05073	Perform advanced welding using gas metal arc welding process	Group H	4
MEM05074	Perform advanced welding using gas tungsten arc welding process	Group H	4
MEM18011	Shutdown and isolate machines/equipment	Group H	2
MEM12007	Mark off/out structural fabrications and shapes	Group H	4
MEM05094	Repair, replace and/or modify fabrications	Group H	4
MEM03003	Perform sheet and plate assembly	Imported	4
			97

To be awarded the **MEM31922 Certificate III in Engineering – Fabrication Trade**

(Boilermaking/welding), units of competency to the value of 96 points must be achieved, chosen as outlined below:

- all core units of competency listed below (totalling 33 points)
- elective units of competency to a minimum value of 40 points from Group D as described below
- elective units of competency to a maximum value of 23 points from Group H to bring the total value to 96 points.

Code	Name	Unit Type	Points
MEM09002	Interpret technical drawing	Core	4
MEM11011	Undertake manual handling	Core	2
MEM12023	Perform engineering measurements	Core	5
MEM12024	Perform computations	Core	3
MEM13015	Work safely and effectively in manufacturing and engineering	Core	2
MEM14006	Plan work activities	Core	4
MEM16006	Organise and communicate information	Core	2
MEM16008	Interact with computing technology	Core	2
MEM17003	Assist in the provision of on-the-job training	Core	2
MEM18001	Use hand tools	Core	2
MEM18002	Use power tools/hand held operations	Core	2
MSMENV272	Participate in environmentally sustainable work practices	Core	3
Code	Name	Unit Type	Points
MEM05005	Carry out mechanical cutting	Group D	2
MEM05012	Perform routine manual metal arc welding	Group D	2
MEM05049	Perform routine gas tungsten arc welding	Group D	2
MEM05050	Perform routine gas metal arc welding	Group D	2
MEM05007	Perform manual heating and thermal cutting	Group D	2
MEM05085	Select welding processes	Group D	2
MEM05052	Apply safe welding practices	Group D	4
MEM05091	Weld using gas metal arc welding process	Group D	4
MEM05090	Weld using manual metal arc welding process	Group D	4
MEM05092	Weld using gas tungsten arc welding process	Group D	4
MEM05037	Perform geometric development	Group D	6
MEM05073	Perform advanced welding using gas metal arc welding process	Group D	4
MEM05074	Perform advanced welding using gas tungsten arc welding process	Group D	4
MEM18011	Shutdown and isolate machines/equipment	Group H	2
MEM12007	Mark off/out structural fabrications and shapes	Group H	4
MEM05089	Assemble fabricated components	Group H	8
MEM05094	Repair, replace and/or modify fabrications	Group H	4
MEM03003	Perform sheet and plate assembly	Imported	4
			97

warded the **MEM31922 Certificate III in Engineering – Fabrication Trade (Sheetmetal working)**, units of competency to the value of 96 points must be achieved, chosen as outlined below:

- all core units of competency listed below (totalling 33 points)
- elective units of competency to a minimum value of 40 points from Group E as described below
- elective units of competency to a maximum value of 23 points from Group H to bring the total value to 96 points.

Code	Name	Unit Type	Points
MEM09002	Interpret technical drawing	Core	4
MEM11011	Undertake manual handling	Core	2
MEM12023	Perform engineering measurements	Core	5
MEM12024	Perform computations	Core	3
MEM13015	Work safely and effectively in manufacturing and engineering	Core	2
MEM14006	Plan work activities	Core	4
MEM16006	Organise and communicate information	Core	2
MEM16008	Interact with computing technology	Core	2
MEM17003	Assist in the provision of on-the-job training	Core	2
MEM18001	Use hand tools	Core	2
MEM18002	Use power tools/hand held operations	Core	2
MSMENV272	Participate in environmentally sustainable work practices	Core	3
Code	Name	Unit Type	Points
MEM05005	Carry out mechanical cutting	Group D	2
MEM05012	Perform routine manual metal arc welding	Group D	2
MEM05049	Perform routine gas tungsten arc welding	Group D	2
MEM05050	Perform routine gas metal arc welding	Group D	2
MEM05007	Perform manual heating and thermal cutting	Group D	2
MEM05085	Select welding processes	Group D	2
MEM05052	Apply safe welding practices	Group D	4
MEM05091	Weld using gas metal arc welding process	Group D	4
MEM05090	Weld using manual metal arc welding process	Group D	4
MEM05092	Weld using gas tungsten arc welding process	Group D	4
MEM05037	Perform geometric development	Group D	6
MEM05073	Perform advanced welding using gas metal arc welding process	Group D	4
MEM05074	Perform advanced welding using gas tungsten arc welding process	Group D	4
MEM18011	Shutdown and isolate machines/equipment	Group H	2
MEM12007	Mark off/out structural fabrications and shapes	Group H	4
MEM05089	Assemble fabricated components	Group H	8
MEM05094	Repair, replace and/or modify fabrications	Group H	4
MEM03003	Perform sheet and plate assembly	Imported	4
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