

# MEM31922 Certificate III in Engineering - Fabrication Trade

CRICOS COURSE CODE 112712C

This qualification defines the skills and knowledge required of an Engineering Tradesperson - Fabrication within metal, engineering, manufacturing and associated industries. The qualification has been specifically developed to meet the needs of apprentices in the above trade.

This qualification is designed to provide an industry recognised skills profile related to trade work as an Engineering Tradesperson - Fabrication.

## Career Opportunities

The skills associated with this qualification are intended to apply to a wide range of fabrication work,

including undertaking metal fabrication, structural steel erection, sheetmetal work, welding, blacksmithing and surface finishing.

## Pathways

Completing this course may provide you with employment or learning opportunities.

Potential employment options are in the Fabrication Engineering industry. These are potential routes for career progression:

- Welder
- Blacksmith
- Boilermaker
- Sheetmetal Worker
- Aluminium Fabrication Production Worker
- Metal Fabricator Manufacturing Technician
- Advanced Fabrication Technician (Structural)

**Course delivery modes:** Face to face

Course conducted in English

**This course is recommended for** for International students who are interested in developing their knowledge and skills in Fabrication Trade

**Course Duration 98 Weeks**

## Tuition Fee

Course Fee: AUD \$26,000

Non-Tuition Fee: AUD \$4,000

Estimated Total Course

Cost: AUD \$30,000

## Units of Competency

Unit Code	Unit Title	Core / Elective
MEM09002	Interpret technical drawing	Core
MEM11011	Undertake manual handling	Core
MEM12023	Perform engineering measurements	Core
MEM12024	Perform computations	Core
MEM13015	Work safely and effectively in manufacturing and engineering	Core
MEM14006	Plan work activities	Core
MEM16006	Organise and communicate information	Core
MEM16008	Interact with computing technology	Core
MEM17003	Assist in the provision of on-the-job training	Core
MEM18001	Use hand tools	Core
MEM18002	Use power tools/hand held operations	Core
MSMENV272	Participate in environmentally sustainable work practices	Core
MEM05004	Perform routine oxy fuel gas welding	Elective
MEM05007	Perform manual heating and thermal cutting	Elective
MEM05009	Perform automated thermal cutting	Elective
MEM05012	Perform routine manual metal arc welding	Elective
MEM05014	Monitor quality of production welding/fabrications	Elective
MEM05049	Perform routine gas tungsten arc welding	Elective
MEM05050	Perform routine gas metal arc welding	Elective
MEM05052	Apply safe welding practices	Elective
MEM05065	Maintain weld records	Elective
MEM05089	Assemble fabricated components	Elective
MEM08010	Manually finish/polish materials	Elective
MEM05085	Select welding processes	Elective
MEM05006	Perform brazing and/or silver soldering	Elective
MEM05003	Perform soft soldering	Elective
MEM05052	Apply safe welding practices	Elective
MEM07032	Use workshop machines for basic operations	Elective
MEM11016	Order materials	Elective
MEM13001	Perform emergency first aid	Elective
MEM13003	Work safely with industrial chemicals and materials	Elective
MEM15001	Perform basic statistical quality control	Elective
MEM15004	Perform inspection	Elective
MEM18011	Shut down and isolate machines/equipment	Elective
MSMENV472	Implement and monitor environmentally sustainable work practices	Elective

\* The list of electives is only a sample

## Entry Requirements

- Be at least 18 years of age and have completed Year 12 or equivalent.
- Prospective students may be asked to participate in course entry interview to determine the suitability for the course and student needs.
- English language competence can also be demonstrated through documented evidence of any of the following:
  - i. Educated for 5 years in an English-speaking country; or
  - ii. Successful completion of an English Placement Test
  - iii. General English - Upper Intermediate

\*Note that other English language tests such as PTE and TOEFL etc can be accepted. Students are required to provide their results so that it can be confirmed they are equivalent to IELTS 5.5.