



MANUFACTURING AND ENGINEERING

MEM10119 Certificate I in Engineering

Statement of Attainment towards MEM20413 Certificate II in Engineering Pathways

VERSION: APRIL 2020

The Certificate I in Engineering and SOA towards Certificate II in Engineering Pathways will equip students with knowledge and skills which will enhance their prospects of employment in an engineering or related working environment.

Students undertaking this program will work on lathes and milling machines as well as learning about hand and power tools and precision measurement tools.

Students will have the opportunity to learn welding skills using manual metal arc and gas metal arc process as well as the oxy acetylene welding.

Hours	240 hours	Training Package	MEM v2 & MEM05 v11.1
Type	VET Board Endorsed Course	Work Placement	Mandatory 35 hours
Unit Value	2 unit Preliminary 2 unit HSC	SBAT	Opportunity to complete a School Based Apprenticeships or a Traineeship and gain credit towards the HSC
Specialisation	Yes	Recognition	National AQF and HSC Qualification
HSC Exam	No	ATAR	No

ASSESSMENT

This course is competency based and the student’s performance is assessed against prescribed industry standards. Assessment methods may include:

- Observation
- Student Demonstration
- Questioning
- Written tasks
- Tests

DUTIES AND TASKS OF A METAL TRADES ASSISTANT

- Position and hold metal stock or products to enable work to be carried out
- Perform assembly and dismantling operations, such as screwing or bolting
- Solder or spot-weld components using electrical spot or butt welding machines
- Operate power hammers, presses or other cutting and shaping tools and machines
- Transport tools, materials and work pieces to & from sites or workbenches
- Hand tools to tradespersons & hold tools not immediately required
- Clean and prepare working surfaces.

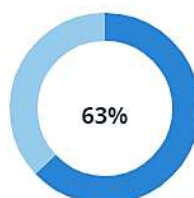
STUDENT OUTCOMES FOR CERTIFICATE I IN ENGINEERING

These are the outcomes of graduates surveyed six months after completing their training.

Satisfied with Training



Improved Work Status



Salary



PERSONAL REQUIREMENTS

- Enjoy technical and engineering activities
- Good with hands
- Enjoy practical and manual activities
- Able to work efficiently
- Able to work as part of a team
- Safety-conscious
- Able to cope with the physical demands of the job.

FURTHER STUDY

Further training options in specific fields include:

- Engineering - Fabrication Trade
- Engineering - Mechanical Trade
- Engineering - Electrical/Electronic Trade
- Engineering - Technical
- Boating Services

JOB ROLES IN THE ENGINEERING INDUSTRY

Sheet Metal Worker, Machinist, Equipment Maintainer & Repairer, Plant Mechanic, Mechanical Fitter, Tool and Die Maker, Design Engineer, CNC Operator, Mechanical and Maintenance Engineer