



## This programme maybe subject to change in 2021

Want a career in welding, machining and fabrication? Kick start your mechanical engineering technician career with this one year certificate.

## You will learn how to:

- Work safely, applying an understanding of relevant Health and Safety requirements and safety culture, when carrying out engineering tasks
- Apply basic trade related numeracy, literacy, and visualisation skills to perform engineering tasks
- Perform a defined range of engineering tasks according to instructions using relevant materials, tools, and equipment
- Set up and carry out a single process engineering job according to instructions
- Apply an understanding of effective and efficient processes and principles to the engineering jobs being undertaken
- Take responsibility for the appropriate quality of your own engineering work and make corrections as required
- Participate and communicate effectively within an engineering team

## Programme Specific Information

Graduates of this qualification will be able to work (under limited supervision) in an operator or trade assistant role in their area of specialisation, in the mechanical engineering, construction, mechanical building services, manufacturing, or fabrication industries.

**Career Options:** CNC Machine Operator, Mould and Core Maker, Furnace Operator, Machine Operator, Specialist Production Welder, Metal Worker/Fabricator, Ducting Fabricator, Pipe Fitter/Welder, Metal Polisher and Pattern Maker Trade Assistant.

## Programme Information

Course Code	Course Title	Purpose
CME2.301	Health and Safety	This course introduces students to engineering health and safety requirements in engineering workshops which will allow them to be able to: <ul style="list-style-type: none"><li>• Identify and describe legislative rights and responsibilities for workplace health and safety; describe the systems approach to workplace health and safety; and explain how hazards are defined in the HSWA Act.</li><li>• Demonstrate knowledge of hazards, personal safety, and safety procedures and equipment on engineering worksites.</li></ul>
CME2.302	Mechanical - Fabrication A	This course introduces students to project-based learning. On completion of the project students will have the understanding and basic ability to: <ul style="list-style-type: none"><li>• Work safely in an engineering workshop</li><li>• Apply basic trade-related numeracy, literacy and visualisation skills to perform engineering tasks</li><li>• Perform a defined range of engineering tasks according to instructions using relevant materials, tools and equipment.</li></ul>
CME3.303	Mechanical – Fabrication B	This course introduces students to project-based learning. On completion of the project students will have the ability to: <ul style="list-style-type: none"><li>• Work safely, applying an understanding of relevant Health and Safety requirements and safety culture, when carrying out engineering tasks</li></ul>



- Apply basic trade-related numeracy, literacy and visualisation skills to perform engineering tasks
- Perform a defined range of engineering tasks according to instructions using relevant materials, tools and equipment
- Set up and carry out a single process engineering job according to instructions
- Apply an understanding of effective and efficient processes and principles to the engineering jobs being undertaken
- Take responsibility for the appropriate quality of their own engineering work and make corrections as required
- Participate and communicate effectively within an engineering team

CME3.304

Mechanical –  
Fabrication C

This course introduces students to project based learning. On completion of the project students will have the ability to:

- Work safely, applying an understanding of relevant Health and Safety requirements and safety culture, when carrying out engineering tasks
- Apply basic trade related numeracy, literacy and visualisation skills to perform engineering tasks
- Perform a defined range of engineering tasks according to instructions using relevant materials, tools and equipment
- Set up and carry out a single process engineering job according to instructions; Apply an understanding of effective and efficient processes and principles to the engineering jobs being undertaken
- Take responsibility for the appropriate quality of their own engineering work and make corrections as required
- Participate and communicate effectively within an engineering team

## Programme Fees and Additional Expenses

### Programme Fees

Domestic      FREE (TTAF funded)

International \$POA

### Additional Expenses

Item	Expected Approximate Cost
Overalls (Cotton)	\$60 - \$150
Safety Boots (Steel capped)	\$100 - \$250
Safety Glasses	\$10
Scientific Calculator	\$15 - \$35
Riggers Gloves or	\$15 - \$30
Tig Welding Gloves	\$15 - \$30

**A laptop or tablet is also required** Approximately \$750.00