



## Certificate Information

# Design and Technology

CERTIFICATE

## MEM20422 Certificate II in Engineering Pathways

### About the certificate

The course is divided into three streams;

- 1.Fabrication: Soldering, brazing, sheet assembly and welding.
- 2.Machining and process: Using hand tools, power tools and machining.
- 3.Drawing: Interpretation, sketching and drawing.

It will provide you with skills in processes such as manual metal arc welding, gas metal arc welding, soldering and brazing. You will also be provided with an overview of the safety and legal requirements required in an engineering environment and taught to communicate more effectively, both orally and in writing, with those within their professional environment.

Studying this course will give you the opportunity to gain more advanced skills and knowledge necessary to increase your chances of gaining an apprenticeship in the engineering trades.

### Units

#### Core units

- MEM13015 Work safely and effectively in manufacturing and engineering
- MEMPE005 Develop a career plan for the engineering and manufacturing industries
- MEMPE006 Undertake a basic engineering project
- MSMENV272 Participate in environmentally sustainable work practices

#### Elective units\*

- MEM16006 Organise and communicate information
- MEM18001 Use hand tools
- MEM18002 Use power tools/hand held operations
- MEMPE001 Use engineering workshop machines
- MEMPE002 Use electric welding machines
- MEMPE003 Use oxy-acetylene and soldering equipment
- MEMPE004 Use fabrication equipment
- MEM11011 Undertake manual handling

*\*please note these units are subject to change*



# Certificate Information

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### School Pathways

Not applicable

### Post-Secondary Pathways and Industry

Certificate III in Engineering

Certificate IV in Engineering

### Higher Education and Training

Bachelor of Engineering

 <p><b>Prerequisites</b> General Material Design &amp; Technology – Metal preferred in Year 11</p>	 <p><b>Type of Assessment</b> Competency-based assessment</p>
 <p><b>Duration of Study</b> One Year</p>	 <p><b>Total Hours</b> 360 (please note this is dependent on unit selection)</p>
 <p><b>WACE Equivalent</b> Two units in Year 11 Two units in Year 12</p>	 <p><b>RTO</b> Cartec Training RTO Code   52502 Ausspicing Agreement</p>
 <p><b>Costs</b> \$340</p>	