Certificate III in Engineering - Technical

National ID: MEM30505 | State ID: W240

About this course

Are you ready to engineer a mechanically technical career?

This qualification aims to teach basic skills needed to gain initial employment in an engineering office.

The Certificate III will look at the industries of civil, structural, mechanical and electrical engineering.

Skills such as mathematics, drafting and design, selecting, assembling, setting up and maintaining simple equipment and systems to a prescribed routine or standard will be covered in this qualification.

This course is designed to:

• Provide a thorough grounding in the engineering, physical and mathematical sciences
• Develop an appreciation of the management of engineering activities
• Develop the ability to undertake life-long professional learning
• Develop an awareness of the professional responsibility for a sustainable environment
• Provide articulation to university undergraduate courses

On successful completion of Year 12 and the Certificate III in Engineering (Technical), South Metropolitan TAFE will guarantee a place for graduates (based on merit) in the Diploma of Engineering.
Overview

Where  Munster

Duration  One year, one day per week, Friday 9:00am to 3:30pm

How  Part Time

When  Commences: Semester 1, 2020, Week 3 - 21st February
      Completion: Semester 2, 2020, Week 10 - 25th September

Incidental costs

Text books $200

Uniform/personal protective equipment

• Enclosed footwear (shoes)
• Long pants/jeans
• A long sleeve work shirt may be required for some lessons of the practical units
• Scientific calculator
• 1x 2H pencil, 1x HB pencil, 1x 2B pencil, 1x eraser, 1x sharpener, 1x A4 notepad, 1x USB flash drive

Work practice

Not applicable.

Job outcomes

Assistant Production Scheduler, Draftsperson (Mechanical Detail), Engineering Assistant Technical, Engineering Draftsperson (Mechanical) – Computer Aided Drafting, Engineering Trainee (Mechanical), Trainee in Engineering company and Technical Officer
Qualification Outline

**CORE UNITS**

<table>
<thead>
<tr>
<th>National ID</th>
<th>Unit Name</th>
<th>Nominal Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEM16005A</td>
<td>Organise and communicate information</td>
<td>18</td>
</tr>
<tr>
<td>MEM16008A</td>
<td>Interact with computing technology</td>
<td>18</td>
</tr>
<tr>
<td>MSAENV272B</td>
<td>Participate in environmentally sustainable work practices</td>
<td>20</td>
</tr>
</tbody>
</table>

**ELECTIVE UNITS**

<table>
<thead>
<tr>
<th>National ID</th>
<th>Unit Name</th>
<th>Nominal Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEM30031A</td>
<td>Operate computer-aided design (CAD) system to produce basic drawing elements</td>
<td>40</td>
</tr>
<tr>
<td>MEM12024A</td>
<td>Perform computations</td>
<td>27</td>
</tr>
<tr>
<td>MEM09002B</td>
<td>Interpret technical drawing</td>
<td>36</td>
</tr>
<tr>
<td>UENEEE101A</td>
<td>Apply Occupational Health and Safety regulations, codes and practices in the workplace</td>
<td>18</td>
</tr>
<tr>
<td>UENEEE104A</td>
<td>Solve problems in d.c. circuits</td>
<td>72</td>
</tr>
<tr>
<td>MEM09202A</td>
<td>Produce freehand sketches</td>
<td>40</td>
</tr>
<tr>
<td>MEM12023A</td>
<td>Perform engineering measurements</td>
<td>48</td>
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