Gain trade qualifications in mechanical engineering

To study for this Certificate III you will need to be an existing contracted apprentice in the field of mechanical engineering. This course will qualify you to service, maintain and repair heavy earthmoving and agricultural machinery as well as large marine engines, heavy lift vehicles and stationary plant equipment. Training is delivered in workshops, in the classroom and at your place of work.

Whilst the apprentice would use a wide range of hand tools and electrical/air power tools, the apprentice would also need to use the following:

- welding

LOCATION/S
Gold Coast - Ashmore

DURATION
Workplace/TAFE: 4 years

Entry requirements
To be eligible to enrol into this program as an apprentice students need to have completed

Resources required
There may be an additional cost for text books.
Outcome

The Certificate III in Engineering - Mechanical Trade specifies the competencies required for employment as an Engineering Tradesperson - Mechanical including the design, assembly, manufacture, installation, modification, testing, fault finding, commissioning, maintenance and service of all mechanical equipment, machinery, fluid power systems, stationary and mobile equipment, instruments, refrigeration, and the use of computer controlled machine tools. Employment outcomes related to this qualification are found in a wide variety of manufacturing and engineering related sectors as well as Engineering Tradesperson - Mechanical roles in other industries.

Job prospects
- Apprenticeship - Engineering Trade

Units

To achieve a Certificate III in Engineering - Mechanical Trade 96 points must be completed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Unit Type</th>
<th>Elective Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEM12003B</td>
<td>Perform precision mechanical measurement</td>
<td>Elective</td>
<td>Diesel Fitting/Fitting and Turning</td>
</tr>
<tr>
<td>MEM18012B</td>
<td>Perform installation and removal of mechanical seals</td>
<td>Elective</td>
<td>Diesel Fitting/Fitting and Turning</td>
</tr>
<tr>
<td>MEM18008B</td>
<td>Balance equipment</td>
<td>Elective</td>
<td>Fitting and Turning</td>
</tr>
<tr>
<td>MEM18011C</td>
<td>Shut down and isolate machines/equipment</td>
<td>Elective</td>
<td>Fitting and Turning</td>
</tr>
<tr>
<td>MEM1826C</td>
<td>Test compression ignition fuel systems</td>
<td>Elective</td>
<td>Diesel Fitting</td>
</tr>
<tr>
<td>MEM18035B</td>
<td>Diagnose and rectify braking systems</td>
<td>Elective</td>
<td>Diesel Fitting</td>
</tr>
<tr>
<td>MEM18030B</td>
<td>Diagnose and rectify low voltage electrical systems</td>
<td>Elective</td>
<td>Diesel Fitting</td>
</tr>
<tr>
<td>MEM18032B</td>
<td>Maintain induction/exhaust systems</td>
<td>Elective</td>
<td>Diesel Fitting</td>
</tr>
<tr>
<td>MEM18033B</td>
<td>Perform engine bottom-end overhaul</td>
<td>Elective</td>
<td>Diesel Fitting</td>
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<tr>
<td>MEM18034B</td>
<td>Perform engine top-end overhaul</td>
<td>Elective</td>
<td>Diesel Fitting</td>
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<tr>
<td>MEM18021B</td>
<td>Maintain hydraulic systems</td>
<td>Elective</td>
<td>Fitting and Turning</td>
</tr>
<tr>
<td>MEM05015D</td>
<td>Weld using manual metal arc welding process</td>
<td>Elective</td>
<td>Mechanical</td>
</tr>
<tr>
<td>MEM12006C</td>
<td>Mark off/out (general engineering)</td>
<td>Elective</td>
<td>Mechanical/Fitting and Turning</td>
</tr>
<tr>
<td>MEM18004B</td>
<td>Maintain and overhaul mechanical equipment</td>
<td>Elective</td>
<td>Mechanical/Fitting and Turning</td>
</tr>
<tr>
<td>MEM18007B</td>
<td>Maintain and repair mechanical drives and mechanical transmission assemblies</td>
<td>Elective</td>
<td>Mechanical/Fitting and Turning</td>
</tr>
<tr>
<td>MEM18009B</td>
<td>Perform levelling and alignment of machines and engineering components</td>
<td>Elective</td>
<td>Mechanical/Fitting and Turning</td>
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<tr>
<td>MEM07005C</td>
<td>Perform general machining</td>
<td>Elective</td>
<td>Mechanical/Fitting and Turning</td>
</tr>
<tr>
<td>MEM05012C</td>
<td>Perform routine manual metal arc welding</td>
<td>Elective</td>
<td>Mechanical/Fitting and Turning</td>
</tr>
<tr>
<td>MEM05017D</td>
<td>Weld using gas metal arc welding process</td>
<td>Elective</td>
<td>Mechanical</td>
</tr>
<tr>
<td>MEM05051A</td>
<td>Select welding processes</td>
<td>Elective</td>
<td>Mechanical</td>
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<tr>
<td>MEM05052A</td>
<td>Apply safe welding practices</td>
<td>Elective</td>
<td>Mechanical</td>
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<tr>
<td>MEM05005B</td>
<td>Carry out mechanical cutting</td>
<td>Elective</td>
<td>Mechanical/Fitting and Turning</td>
</tr>
<tr>
<td>MEM18028B</td>
<td>Maintain engine lubrication systems</td>
<td>Elective</td>
<td>Diesel Fitting</td>
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<tr>
<td>MEM18024B</td>
<td>Maintain engine cooling systems</td>
<td>Elective</td>
<td>Diesel Fitting</td>
</tr>
</tbody>
</table>

ARE YOU READY TO TAKE THE NEXT STEP ON YOUR PATH TO GREAT?

Enrol today to secure your spot in this course.

HOW TO ENROL

Recognition of prior learning

Fast-track your way to a formal qualification by earning credit for the things you already know. Getting recognition for the skills you've gained from the workplace or previous learning means less study time for you, and getting the paper to prove you're qualified a whole lot sooner.

More info:

Make your future happen

Connect with TAFE on Facebook

Accurate as at 25 August 2017. For the latest information see:
tafegoldcoast.edu.au/course/11780

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<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Type</th>
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<tbody>
<tr>
<td>MEM16006A</td>
<td>Organise and communicate information</td>
<td>Core</td>
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<tr>
<td>MEM16007A</td>
<td>Work with others in a manufacturing, engineering or related environment</td>
<td>Core</td>
</tr>
<tr>
<td>MEM16008A</td>
<td>Interact with computing technology</td>
<td>Core</td>
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<tr>
<td>MEM17003A</td>
<td>Assist in the provision of on the job training</td>
<td>Core</td>
</tr>
<tr>
<td>MEM15024A</td>
<td>Apply quality procedures</td>
<td>Core</td>
</tr>
<tr>
<td>MEM15002A</td>
<td>Apply quality systems</td>
<td>Core</td>
</tr>
<tr>
<td>MEM12024A</td>
<td>Perform computations</td>
<td>Core</td>
</tr>
<tr>
<td>MEM13014A</td>
<td>Apply principles of occupational health and safety in the work environment</td>
<td>Core</td>
</tr>
<tr>
<td>MEM14004A</td>
<td>Plan to undertake a routine task</td>
<td>Core</td>
</tr>
<tr>
<td>MEM14005A</td>
<td>Plan a complete activity</td>
<td>Core</td>
</tr>
<tr>
<td>MSAENV272B</td>
<td>Participate in environmentally sustainable work practices</td>
<td>Core</td>
</tr>
<tr>
<td>MEM05007C</td>
<td>Perform manual heating and thermal cutting</td>
<td>Elective</td>
</tr>
<tr>
<td>MEM18005B</td>
<td>Perform fault diagnosis, installation and removal of bearings</td>
<td>Elective</td>
</tr>
<tr>
<td>MEM18006C</td>
<td>Repair and fit engineering components</td>
<td>Elective</td>
</tr>
<tr>
<td>MEM18020B</td>
<td>Maintain hydraulic system components</td>
<td>Elective</td>
</tr>
<tr>
<td>MEM18055B</td>
<td>Dismantle, replace and assemble engineering components</td>
<td>Elective</td>
</tr>
<tr>
<td>MEM18003C</td>
<td>Use tools for precision work</td>
<td>Elective</td>
</tr>
<tr>
<td>MEM18002C</td>
<td>Use power tools/hand held operations</td>
<td>Elective</td>
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<tr>
<td>MEM05050B</td>
<td>Perform routine gas metal arc welding</td>
<td>Elective</td>
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<tr>
<td>MEM09002B</td>
<td>Interpret technical drawing</td>
<td>Elective</td>
</tr>
<tr>
<td>MEM18001C</td>
<td>Use hand tools</td>
<td>Elective</td>
</tr>
<tr>
<td>MEM12023A</td>
<td>Perform engineering measurements</td>
<td>Core</td>
</tr>
</tbody>
</table>

Disclaimer

Not all electives available at all campuses