MEM40105
Certificate IV in Engineering
APPRENTICESHIP - MECHANICAL ENGINEERING TRADES WORKER

HELLO THERE, OUR DREAM IS TO HELP YOU MAKE GREAT HAPPEN

Take your trades career to the next level

With the Certificate IV in Engineering you can apply for trade recognition as a Special Class Engineering Tradesperson and work in engineering in a range of industry sectors. The qualification can be achieved through a formal apprenticeship or as an upgrade for workers holding the Certificate III in Engineering. The course is delivered in workshops, the classroom, on the job and in a simulated learning environment.

This apprenticeship provides candidates with the higher level skills, both on the tools, in the planning stages and at a management level.

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Location/s
Gold Coast - Ashmore

Duration
Workplace/TAFE: 4 years

Course delivery options
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<thead>
<tr>
<th>Workload</th>
<th>Location</th>
<th>Delivery</th>
</tr>
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<tbody>
<tr>
<td>Gold Coast - Ashmore</td>
<td>Workplace/TAFE</td>
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Key dates
For key start dates for each location visit the online brochure for this course (under the course details tab).
tafegoldcoast.edu.au/course/11336

Entry requirements
To be eligible to enrol into this program students need to have completed a Training Contract

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Resources required
Students are required to wear steel capped safety work boots, a long sleeved shirt and long trousers for practical

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Eligible apprentices and trainees that meet the Queensland state funding requirements will be charged a student contribution fee of $1.60 per nominal hour. For more information on the number of units funded for this course visit Queensland Training Information Services.

Nominal hours for each unit will be outlined in the agreed training plan, which will be provided to the employer

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Outcome
Graduates will be able to apply for trade recognition as a Special Class Engineering Tradesperson in Australia.

Most Special Class Engineering tradespersons work in the manufacturing, construction and mining industries. However, there is currently a high demand for these trades people in the oil and gas industry. Shortages for qualified tradespersons exist nationally and, there will be a high level of activity in those industries that employ tradespersons for several years.

This qualification is nationally recognised. After attainment of Certificate IV, students can assume higher levels of study through the Diploma which opens up employment opportunities related to workshop supervisory and management type positions.

Job prospects
- Mechanical Engineering Trades Worker

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Units

MEM05047B Weld using flux core arc welding process Elective

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 knew. 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.

Accurate as at 25 August 2017. For the latest information see:
tafegoldcoast.edu.au/course/11336

RTO 0275
CRICOS 03020E
MEM05049B Perform routine gas tungsten arc welding Elective
MEM05050B Perform routine gas metal arc welding Elective
MEM05051A Select welding processes Elective
MEM05037C Perform geometric development Elective
MEM05036C Repair/replace/modify fabrications Elective
MEM05018C Perform advanced welding using gas metal arc welding process Elective
MEM05019D Weld using gas tungsten arc welding process Elective
MEM05020C Perform advanced welding using gas tungsten arc welding process Elective
MEM05052A Apply safe welding practices Elective
MEM07005C Perform general machining Elective
MEM18001C Use hand tools Elective
MEM18002C Use power tools/hand held operations Elective
MEM16055B Dismantle, replace and assemble engineering components Elective
MEM12007D Mark off/out structural fabrications and shapes Elective
MEM12003B Perform precision mechanical measurement Elective
MEM09002B Interpret technical drawing Elective
MEM09009C Create 2D drawings using computer aided design system Elective
MEM09010C Create 3D models using computer aided design system Elective
MEM05017D Weld using gas metal arc welding process Elective
MEM05015D Weld using manual metal arc welding process Elective
MEM15024A Apply quality procedures Core
MEM16006A Organise and communicate information Core
MEM16007A Work with others in a manufacturing, engineering or related environment Core
MEM15002A Apply quality systems Core
MEM14005A Plan a complete activity Core
MEM12024A Perform computations Core
MEM13014A Apply principles of occupational health and safety in the work environment Core
MEM14004A Plan to undertake a routine task Core
MEM16008A Interact with computing technology Core
MEM17003A Assist in the provision of on the job training Core
MEM05010C Apply fabrication, forming and shaping techniques Elective
MEM05011D Assemble fabricated components Elective
MEM05012C Perform routine manual metal arc welding Elective
MEM05008C Perform advanced manual thermal cutting, gouging and shaping Elective
MEM05017C Perform manual heating and thermal cutting Elective
MSAENV272B Participate in environmentally sustainable work practices Core
MEM03003B Perform sheet and plate assembly Elective
MEM05005B Carry out mechanical cutting Elective
MEM12023A Perform engineering measurements Core

Disclaimer
Not all electives available at all campuses

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Make your future happen
Connect with TAFE on Facebook

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CRICOS 03020E