

Diploma of Engineering – Advanced Trade (Mechanical & Fabrication/Welding)

MEM50119

CRICOS Course Code: 100609

ANZCO – 323211 & 323213

Overview:

This qualification provides the skills and knowledge required for employment as an advanced engineering tradesperson within the metal, engineering, manufacturing & associated industries as a Maintenance/Mechanical Fitter and/or Welder/Fabricator. Very practical in approach it allows for the development of key skills over time through the completion of job tasks in a simulated environment.



Scan here to
view this course

Course Fees

TUITION: \$22,000

NON-TUITION: \$1,200
(materials, consumables textbooks)

ENROLMENT FEE: \$400 (non-refundable)

TOTAL COURSE COST: \$23,600

ASG Entry Requirements

Minimum age: 18 years
Academic suitability:

- Completion of Year 12 schooling or higher
- English proficiency at a minimum of IELTS 5.5 or equivalent


You also need to supply your own PPE - steel cap boots, long pants & high-viz shirt.

Qualification Pathway

MEM80112 Graduate Diploma of Engineering

Career Path

Maintenance/Mechanical Fitter
Welder/Fabricator

 Duration:
2 years
Full Time 20 hours per week

 Delivery Mode:
Face to Face at Brendale
+160hrs industry placement



Assessment

Assessment takes place at the end of each unit with a knowledge test and practical demonstration & throughout the course with a holistic project due at the end of each semester.

Certification

On successful completion you will be awarded the AQF Diploma of Engineering –Advanced Trade (Mechanical & Fabrication/Welding), or a Statement of Attainment in recognition of units achieved in partial completion.

Student Services

We offer a range of support services to assist you in achieving a successful course outcome. This includes tutorial support and Language, Literacy & Numeracy assistance where required. Please contact us to discuss any other individual needs.

Course Structure:

MEM09002 Interpret technical drawing
MEM11011 Undertake manual handling
MEM12023 Perform engineering measurements
MEM12024 Perform Computations
MEM12025 Use graphical techniques and perform simple statistical computations
MEM12026 Perform advanced trade calculations in a manufacturing, engineering, or related environment
MEM13015 Work safely and effectively in manufacturing and engineering
MEM14006 Plan work activities
MEM16006 Organise and communicate information
MEM16008 Interact with computing technology
MEM16009 Research and analyse engineering information
MEM16011 Communicate with individuals and small groups
MEM16012 Interpret technical specifications and manuals
MEM16014 Report technical information
MEM17003 Assist in the provision of on-the-job training
MEM18001 Use hand tools
MEM18002 Use power tools/handheld operations
MSMENV272 Participate in environmentally sustainability work practices
MEM05005 Carry out mechanical cutting
MEM05006 Perform brazing and/or silver soldering
MEM05007 Perform manual heating and thermal cutting
MEM05011 Assemble fabricated components
MEM05012 Perform routine manual metal arc welding
MEM05015 Weld using manual metal arc welding process
MEM05016 Perform advanced welding using manual metal arc welding Process
MEM05017 Weld using gas metal arc welding process
MEM05018 Perform advanced welding using gas metal arc welding process
MEM05026 Apply welding principles
MEM05036 Repair, replace and/or modify fabrications
MEM05043 Perform welds to code standards using gas metal arc welding process
MEM05050 Perform routine gas metal arc welding
MEM05051 Select welding processes
MEM05052 Apply safe welding practices
MEM05056 Perform routine flux core welding
MEM12003 Perform precision mechanical cutting
MEM12007 Mark off/out structural fabrications and shapes
MEM18003 Use tools for precision work
MEM18005 Perform fault diagnosis, installation, and removal of bearings
MEM18006 Perform precision fitting of engineering components
MEM18007 Maintain and repair mechanical drives and mechanical transmission assemblies
MEM18009 Perform precision levelling and alignment of machines and engineering components
MEM18011 Shutdown and isolate machines and equipment
MEM18012 Perform installation and removal of mechanical seals
MEM18055 Dismantle, replace, and assemble engineering components
MEM18010 Perform equipment condition monitoring and recording
MEM18018 Maintain pneumatic system components
MEM18020 Maintain hydraulic system components MEM18021 Maintain hydraulic systems