

Diploma of Engineering –Advanced Trade (Refrigeration & Mechanical Fitting)

MEM50119

CRICOS Course Code: 100609

ANZCO - 342111

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 Refrigeration Mechanic and/or Mechanical Fitter. Very practical in approach it allows for the development of key skills over time through the completion of job tasks in a simulated environment.



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Course Fees


TUITION: \$22,000

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

ENROLMENT FEE: \$400 (non-refundable)

TOTAL COURSE COST: \$23,600

 **Duration:**
2 years
Full Time 20 hours per week

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



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 Fitter
Refrigeration Technician

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 (Refrigeration & Mechanical Fitting), 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
MEM05006: Perform brazing and/or silver soldering
MEM05007 Perform manual heating and thermal cutting
MEM10002 Terminate and connect electrical wiring
MEM10009 Install refrigeration and airconditioning plant and equipment
MEM10010 Install pipework and pipework assemblies
MEM12002 Perform electrical/electronic measurement
MEM12003 Perform precision mechanical measurement
MEM13001 Perform emergency first aid
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
MEM18010 Perform equipment condition monitoring and recording
MEM18011 Shut down and isolate machines/equipment
MEM18012 Perform installation and removal of mechanical seals
MEM18018 Maintain pneumatic system components
MEM18020 Maintain hydraulic system components
MEM18021 Maintain hydraulic systems
MEM18046 Fault find and repair electrical equipment/components up to 1000 volts a.c. /1500 volts d.c.
MEM18049 Disconnect/reconnect fixed wired equipment up to 1000 volts a.c /1500 volts d.c.
MEM18055 Dismantle, replace, and assemble engineering components
MEM18083 Handle fluorocarbon refrigerants according to regulations
MEM18084 Commission and decommission split air conditioning systems
MEM18086 Test, recover, evacuate, and charge refrigeration systems
MEM18088 Maintain and repair commercial air conditioning systems and components
MEM18089 Maintain and repair central air handling systems
MEM18091 Maintain and repair multistage, cascade and/or ultra cold industrial refrigeration systems
MEM18092 Maintain and repair commercial and/or industrial refrigeration and/or air conditioning controls