

MEM50119

Diploma of Engineering – Advanced Trade (Diesel/Mechanical Fitting)



DURATION

18 months
2 days a week
over 3 semesters



DELIVERY MODEL

Face-to-Face
at Brendale

Course 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 Mechanical Fitter and/or Diesel 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. It also includes an Industry Placement component for skills consolidation in the workplace.

ASG Entry Requirements

Minimum age: 18 years

Academic suitability:

- Australian Year 12 Certificate; or
- An AQF Certificate IV level qualification or higher; (or its equivalent; or overseas qualification assessed as equivalent by an approved authority)
- Successful completion of LLN assessment at ACSF Exit Level 3 or higher.
- International Baccalaureate (IB) diploma

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

Qualification Pathway

MEM80122 Graduate Diploma of Engineering

Employment Opportunities

On successful course completion students will be dual trade qualified as a Mechanical Engineering tradesperson, equipped to obtain employment as a:

- Diesel Fitter
- Maintenance/Mechanical Fitter

Tuition Fees:

Total Course Cost - \$ 18,997

(payable in installments, across 3 semesters)

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.

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 course completion Australian Skills Group will award the MEM50119 Diploma of Engineering – Advanced Trade, or a Statement of Attainment for units achieved in partial completion.

Course Structure 3 Semesters

Unit of Study 1

- MEM13015 Work safely and effectively in manufacturing and engineering
- MEM16006 Organise and communicate information
- MEM11011 Undertake manual handling
- MEM12023 Perform engineering measurements
- MEM12024 Perform computations
- MEM18001 Use hand tools
- MEM18002 Use power tools/hand held operations
- MEM14006 Plan work activities
- MEM09002 Interpret technical drawing
- MEM16008 Interact with computing technology
- MEM16011 Communicate with individuals and small groups
- MEM16012 Interpret technical specifications and manuals
- MEM16009 Research and analyse engineering information
- MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment
- MEM05006 Perform brazing and/or silver soldering
- MEM16014 Report technical information
- MEM12025 Use graphical techniques and perform simple statistical computations

Unit of Study 2

- MEM18003 Use tools for precision work
- MEM18055 Dismantle, replace and assemble engineering components
- MEM18006 Perform precision fitting of engineering components
- MEM18011 Shutdown and isolate machines and equipment
- MEM18012 Perform installation and removal of mechanical seals
- MEM18005 Perform fault diagnosis, installation and removal of bearings
- MEM18007 Maintain and repair mechanical drives and mechanical transmission assemblies
- MEM18009 Perform precision levelling and alignment of machines and engineering components
- MEM12003 Perform precision mechanical measurement
- MEM12004 Perform precision electrical/electronic measurement
- MEM18010 Perform equipment condition monitoring and recording
- MEM18018 Maintain pneumatic system components
- MEM18020 Maintain hydraulic system components
- MEM18021 Maintain hydraulic systems
- MEM05007 Perform manual heating and thermal cutting

Unit of Study 3

- MEM27002 Test and repair compression ignition systems
- MEM27004 Maintain and repair engine lubrication systems
- MEM27005 Tune diesel engines
- MEM27006 Diagnose and rectify batteries, low voltage sensors and circuits
- MEM27007 Diagnose and rectify low voltage starting systems
- MEM27010 Diagnose and rectify low voltage charging systems
- MEM27013 Maintain steering system
- MEM27012 Maintain mobile plant suspension systems
- MEM27008 Maintain induction, exhaust and emission control systems
- MEM27015 Diagnose and rectify drive line and final drives
- MEM27009 Diagnose and rectify braking systems
- MEM18022 Maintain fluid power controls
- MSMENV272 Participate in environmentally sustainable work practices
- MEM17003 Assist in the provision of on-the-job training