# AUSTRALIAN SKILLS GROUP



# **MEM50119**

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

#### **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:

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- · 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 o 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

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#### DURATION

18 months 2 days a week over 3 semesters



#### DELIVERY MODEL

Face-to-Face at ASG Brendale

#### **Tuition Fees:**

Total Course Cost - \$19,738 \*

(payable in 3 instalments, 1 in each semester)

You have the option to pay your fees as they become due &/or using a VET Student Loan. Eligibility criteria applies.\*

\*The maximum amount of VSL that applies to this course is \$18,838; so if using a VET Student Loan there is a Gap Fee of \$900.

#### **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.

# **VET Student Loans**

- Vet Student Loans is an Australian Government loan program that helps eligible individuals pay their tuition fees
- Eligibility criteria applies a VSL will not be approved for students who do not meet eligibility requirements
- For more information refer to the VET Student Loans Information Booklet:

VET Student Loans Information Booklet - Department of Employment and Workplace Relations, Australian Government (dewr.gov.au)

# Qualification Pathway

#### Semester 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

MEM16011 Communicate with individuals and small groups

MEM09002 Interpret technical drawing

MEM18003 Use tools for precision work

MEM18055 Dismantle, replace and assemble engineering components

MEM18006 Perform precision fitting of engineering components

MEM05007 Perform manual heating and thermal cutting

MEM05006 Perform brazing and/or silver soldering

# Semester 2

RTO: 32519

VSL: 7646

MEM16012 Interpret technical specifications and manuals

MEM16009 Research and analyse engineering information

MEM16014 Report technical information

MEM12025 Use graphical techniques and perform simple statistical computations

MEM16008 Interact with computing technology

MEM12026 Perform advanced trade calculations in a manufacturing, engineering or related environment

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

Nationally Recognised Training

# Semester 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

Contact

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