AUSTRALIAN SKILLS GROUP

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 engineering advanced tradesperson within the metal, engineering, manufacturing & associated industries as a Diesel Fiitter &/or Maintenance 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.

Tuition Fees:

Total Course Cost - $17121*

(payable in 3 instalments, across 3 fee periods,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 ***$16221***; so if using a VSL there is a ***Gap Fee of $900.***

ASG Entry Requirements

Minimum age: 18 years
Academic suitability:

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

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

Employment Opportunities

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

- Maintenance Fitter
- Diesel Fitter

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.

VET Student Loans

- **Vet Student Loans** is an Australian Government loan program that helps eligible individuals pay their tuition fees
- Eligibility criteria applies
- For more information refer to the VET Student Loans Information Booklet at: www.dese.gov.au/vet-student-loans/resources/vet-student-loans-information-booklet

Units of Study

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/handheld operations
MEM14006: Plan work activities
MEM09002: Interpret technical drawing
MEM16008: Interact with computing technology
MEM18003: Use tools for precision work
MEM18055: Dismantle, replace, and assemble engineering components
MEM18006: Perform precision fitting of engineering components
MEM18005: Perform fault diagnosis, installation, and removal of bearings
MEM05006: Perform brazing and/or silver soldering
MEM05007: Perform manual heating and thermal cutting

Unit of Study 2

MEM16011: Communicate with individuals and small groups
MEM16012: Interpret technical specifications and manuals
MEM16009: Research and analyse engineering information
MEM16014: Report technical information
MEM18007: Maintain and repair mechanical drives and mechanical transmission assemblies
MEM18009: Perform precision levelling and alignment of machines and engineering components
MEM27004: Maintain and repair engine lubrication systems
MEM12003: Perform precision mechanical cutting
MEM12025: Use graphical techniques and perform simple statistical computations
MEM27002: Test and repair compression ignition systems
MEM27005: Tune Diesel engines
MEM27013: Maintain steering system
MEM27012: Maintain mobile plant suspension systems
MEM27009: Diagnose and rectify braking systems
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

Unit of Study 3

MEM18011: Shutdown and isolate machines and equipment
MEM18012: Perform installation and removal of mechanical seals
MEM18010: Perform equipment condition monitoring and recording
MEM12026: Perform advanced trade calculations in a manufacturing, engineering, or related environment
MEM27008: Maintain induction, exhaust, and emission control systems
MEM27015: Diagnose and rectify drive line and final drives
MSMENV272: Participate in environmentally sustainability work practices
MEM18018: Maintain pneumatic system components
MEM18019: Maintain pneumatic systems
MEM18020: Maintain hydraulic system components
MEM18021: Maintain hydraulic systems
MEM18022: Maintain fluid power controls
MEM17003: Assist in the provision of on-the-job training

Contact
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