

MEM30205

CERTIFICATE III IN ENGINEERING – MECHANICAL TRADE (DIESEL FITTER)



DURATION
Up to
42 Months



DELIVERY MODEL
Workplace

Course Description

Offered as an Apprenticeship pathway, **MEM30205 Certificate III in Engineering - Mechanical Trade (Diesel Fitter)** qualification provides the skills and knowledge required to undertake the repair/ servicing and maintenance of heavy earthmoving and agricultural machinery; or the repair, servicing and maintenance of large marine engines, heavy lift vehicles and stationary plant equipment (i.e. lift motors, generating set etc). It can also include the performance of these duties on engines, cooling systems, automatic transmissions, brakes, clutches, gear boxes, fuel pumps, axle assemblies and electrical equipment related to these items.

The pathway selected by ASG contains 31 units of competency but this can be adjusted to meet individual learners needs, providing packaging rules are met. It is available as a Recognition of Prior Learning (RPL) pathway. Contact us for a trade recognition or Recognition of Prior Learning (RPL) options.

Course Fees

A student Co-Contribution fee is required in accordance with QLD Government User Choice Policy.

Course Structure

12 Core Units
19 Elective Units

Core Units

- **MEM12023A:** Perform engineering measurements
- **MEM12024A:** Perform computations
- **MEM13014A:** Apply principles of occupational health and safety in the work environment
- **MEM14004A:** Plan to undertake a routine task
- **MEM16007A:** Work with others in a manufacturing engineering or related environment
- **MEM14005A:** Plan a complete activity
- **MEM15002A:** Apply quality systems
- **MEM15024A:** Apply quality procedures
- **MEM16006A:** Organise and communicate information
- **MEM16008A:** Interact with computing technology
- **MSAENV272B:** Participate in environmentally sustainable work practices
- **MEM17003A:** Assist in the provision of on the job training

Elective Units

- **MEM12002B:** Perform electrical/electronic measurements
- **MEM18001C:** Use hand tools
- **MEM18002B:** Use power tools/hand held operations
- **MEM05007C:** Perform manual heating and thermal cutting
- **MEM05012C:** Perform routine manual metal arc welding
- **MEM09002B:** Interpret technical drawing
- **MEM18024B:** Maintain engine cooling systems
- **MEM18030B:** Diagnose and rectify low voltage electrical systems
- **MEM18035B:** Diagnose and rectify braking systems
- **MEM18044C:** Diagnose and rectify drive line and final drive
- **MEM18055B:** Dismantle, replace and assemble engineering components
- **MEM18026C:** Test compression ignition fuel systems
- **MEM18029B:** Tune diesel engine
- **MEM18032B:** Maintain induction/exhaust systems
- **MEM18040B:** Maintain suspension systems
- **MEM18052B:** Maintain fluid power systems for mobile plant
- **MEM18041B:** Maintain steering systems
- **MEM18043C:** Diagnose and rectify automatic transmission
- **MEM18047B:** Diagnose and maintain electronic controlling systems on mobile plant