



# MEM31419 CERTIFICATE III IN ENGINEERING FIXED AND MOBILE PLANT MECHANIC

Study With Axial Training To Get The Skills and Succeed



The MEM31419 Certificate III in Engineering – Mechanical Trade course with a focus on Diesel Fitting is designed to offer students the opportunity to further their skills and experience repairing and maintaining a range of equipment driven by diesel engines including heavy earthmoving equipment.

This course is for individuals who work or would like to work as a Diesel Fitter whose duties include use of hand and power tools, planning work activities, interpret drawings, basic welding using a range of processes, use precision tools, diagnosis faults in components and bearings, tune diesel engine, and work on braking, steering and engine cooling system.

<b>Study Mode</b>	Workplace & Online
<b>Duration of Course</b>	Up to 48 Months
<b>Total Units</b>	26 [19 Core & 7 Elective]



## Entry Requirements



### Employment

This accredited qualification is delivered as an Australian Apprenticeship.

Accordingly, you will need employment as an Apprentice at a suitable employer with a nominated Supervisor who holds this qualification (or recognised equivalent).



### Requirements

You will need to have access to a Lap Top or Desk Top Computer with working speakers or headphones and a suitable, reliable internet connection.



### Career Outcomes

- Diesel Fitter
- Heavy Earthmoving Fitter (HEF)
- Diesel Mechanic





# MEM31419

## CERTIFICATE III IN ENGINEERING

### FIXED AND MOBILE PLANT MECHANIC



## Pathways To Further Study

Certificate IV in Engineering

### Course Units

#### Core:

- MEM13015 Work safely and effectively in manufacturing and engineering
- MEM16006 Organise and communicate information
- MEM16008 Interact with computing technology
- MEM11011 Undertake manual handling
- MEM12024 Perform computations
- MEM12023 Perform engineering measurements
- MSMENV272 Participate in environmentally sustainable work practices
- MEM14006 Plan work activities
- MEM18001 Use hand tools
- MEM18002 Use power tools/hand held operations
- MEM09002 Interpret technical drawing
- MEM18055 Dismantle, replace and assemble engineering components
- MEM27006 Diagnose and rectify batteries, low voltage sensors and circuits
- MEM17003 Assist in the provision of on-the-job training
- MEM27023 Diagnose and rectify fieldbus circuits in mobile and stationary plant and equipment
- MEM27019 Diagnose, repair and replace diesel engines in stationary and mobile plant
- MEM27020 Apply knowledge of large combustion engine operations to service and maintenance tasks
- MEM27016 Diagnose and maintain electronic controlling systems on mobile and stationary plant
- MEM27017 Maintain, fault find and rectify hydraulic systems for mobile plant

#### Elective:

- MEM12003 Perform precision mechanical measurement
- MEM27009 Diagnose and rectify braking systems
- MEM27008 Maintain induction, exhaust and emission control systems
- MEM18003 Use tools for precision work
- MEM18006 Perform precision fitting of engineering components
- MEM27030 Perform engine bottom-end overhaul
- MEM27031 Perform engine top-end overhaul

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