



# 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.

This training is funded by the NSW Government.

<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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