

Occupation: Mechanical Engineer

Job Description: Employees use tools, machines, equipment and engineering techniques to maintain and repair combustion engines and associated equipment on mobile and stationary plants. Work may include daily maintenance of plant essentials i.e. fuel, oils, lubricants, coolants, etc, fault finding/diagnostics of plant components and systems, including engine electrical systems, repair/overhaul/replacement of system components and tuning of petrol and diesel engines. A wide variety of tools are utilised including hand tools, power tools and workshop machines.
Metal, Engineering and Associated Industries Award classification on completion: C10
They follow sustainable work practice methods to reduce the negative environmental impacts.

Note - in WA for the Declared Trade of Toolmaking and Jigmaking (Metal Furniture) the nominal duration of this apprenticeship is 60 months and for the Declared Trade of Watch & Clock Repairing the nominal duration is 48 months.

Qualification: Certificate III in Engineering – Mechanical Trade: MEM30205

This qualification reflects the role of individuals who apply a broad range of operational competencies in varied contexts, using some discretion and judgement. They may provide technical advice and support to colleagues.

The Metal and Engineering MEM05 Training Package guidelines, with the incorporation of environmental electives have been applied to create this occupational profile: 34 Units Required	
MEM05005B	Carry out mechanical cutting
MEM05007C	Perform manual heating thermal cutting
MEM07005B	Perform general machining
MEM07006B	Perform lathe operations
MEM09002B	Interpret technical drawing
MEM11011B	Undertake manual handling
MEM12003B	Perform precision mechanical measurement
MEM12006B	Mark off/out (general engineering)
MEM12007C	Mark off/out structural fabrication and shapes
MEM12023A	Perform engineering measurements
MEM12024A	Perform computations
MEM13001B	Perform emergency first aid
MEM13014A	Apply principles of occupational health and safety in the work environment
MEM14004A	Plan to undertake a routine task
MEM14005A	Plan a complete activity
MEM15002A	Apply quality systems
MEM15024A	Apply quality procedures
MEM16006A	Organise and communicate information
MEM16007A	Work with others in a manufacturing, engineering or related environment
MEM16008A	Interact with computing technology

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MEM17003A	Assist in the provision of on the job training
MEM18001C	Use hand tools
MEM18002B	Use power tools/hand held operations
MEM18003C	Use tools for precision work
MEM18004B	Maintain and overhaul mechanical equipment
MEM18005B	Perform fault diagnosis, installation and removal of bearings
MEM18006B	Repair and fit engineering components
MEM18007B	Maintain and repair mechanical drives and mechanical transmission assemblies
MEM18009B	Perform leveling and alignment of machines and engineering components
MEM18010C	Perform equipment condition monitoring and recording
MEM18018C	Maintain pneumatic system components
MEM18055B	Dismantle, replace and assemble engineering components
MCMT270A	Use sustainable energy practices
MSAENV272A	Participate in environmentally sustainable work practices