

## 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:

| <b>34 Units Required</b> |  |
|--------------------------|--|
| 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 |