

MEM30219

## Certificate III in Engineering – Mechanical Trade - (Fitting)



**DURATION**  
Up to 48 Months  
over 4 Stages



**DELIVERY MODEL**  
Workplace

### Course Description

Offered as a trade recognition option, this apprenticeship pathway recognises the knowledge and skills required to perform installation, repair, maintenance, overhaul and diagnostic tests on a range of plant, machinery and engineering components within an engineering mechanical environment.

The pathway selected by ASG contains 30 units of competency but this can be adjusted to meet individual learner needs, provided packaging rules are met. It is available as a Recognition of Prior Learning (RPL) pathway.

### Course Fees

A student co-contribution fee is required in accordance with QLD Government User Choice Policy.

## Course Structure

12 Core Units  
18 Elective Units

### Core Units

- **MEM09002:** Interpret technical drawing
- **MEM11011:** Undertake manual handling
- **MEM12023:** Perform engineering measurements
- **MEM12024:** Perform Computations
- **MEM13015:** Work safely and effectively in manufacturing and engineering
- **MEM14006:** Plan work activities
- **MEM16006:** Organise and communicate information
- **MEM16008:** Interact with computing technology
- **MEM17003:** Assist in the provision of on the job training
- **MEM18001:** Use hand tools
- **MEM18002:** Use power tools/hand held operations
- **MSMENV272:** Participate in environmentally sustainability work practices

### Elective Units

- **MEM05005:** Carry out mechanical cutting
- **MEM07005:** Perform general machining
- **MEM10006:** Install machine/plant
- **MEM12006:** Mark off/out (general engineering)
- **MEM18003:** Use tools for precision work
- **MEM18004:** Maintain and overhaul mechanical equipment
- **MEM18005:** Perform fault diagnosis, installation and removal of bearings
- **MEM18006:** Repair and fit engineering components
- **MEM18007:** Maintain and repair mechanical drives and mechanical transmission assemblies
- **MEM18009:** Perform precision levelling and alignment of machines and engineering components
- **MEM18012:** Perform installation and removal of mechanical seals
- **MEM18013:** Perform gland packing
- **MEM18055:** Dismantle, replace and assemble engineering components
- **MEM05006:** Perform brazing and/or silver soldering
- **MEM05007:** Perform manual heating and thermal cutting
- **MEM12003:** Perform precision mechanical measurement
- **MEM18010:** Perform equipment condition monitoring and recording
- **MEM18011:** Shutdown and isolate machines and equipment