

ENGINEERING – MECHANICAL TRADE

(FITTER & TURNER)

Fitters fit and assemble parts and sub-assemblies made from metal and other materials to make production machinery and other equipment. They work from detailed drawings or specifications using hand and machine tools and precision measuring instruments.

Typical Duties:

- Mark the shape and dimensions of a part to be machined by studying blueprints and using measuring instruments
- Assemble and fit machined parts, using drill holes and tap threads, if necessary, for bolting parts together
- Check tightness of joints and operation of moving parts, and file or chisel parts to make final adjustments if the fit is not perfect
- Cut, thread, bend and install hydraulic and pneumatic pipes and lines
- Shrink-fit parts during assembly, using Oxy-acetylene torches and presses, dry ice and carbon dioxide freezing
- Manufacture, repair and fault-find hydraulic and pneumatic equipment
- Operate powered machines which may be manually or computer controlled
- Inspect machinery regularly and make any adjustments or repairs needed, by removing any worn or damaged parts to install replacements, by sending a damaged part to the machine shop for repair or by doing the repair work themselves.

Ideal Personal Requirements to gain an Apprenticeship:

- Aptitude for mechanical work
- Aptitude for understanding mechanical drawings and specifications
- Attention to detail
- Entry requirements may vary but, generally, you need at least the successful completion of Year 10/11, including maths
- Having completed some work experience or study (VET/pre-apprenticeship program) in this industry is highly recommended

Education and Training to become qualified:

- Complete up to a 4 year Apprenticeship, this may be flexible due to Competency Based Completion
- Trade school training is 'off the job' at a Trade training facility

