

# ENGINEERING – FABRICATION TRADE

## (BOILERMAKER, STAINLESS STEEL, SHEETMETAL WORKER)

Boilermakers cut, shape, assemble and join metal parts to produce or repair containers that have to withstand pressure, such as ships, boilers and storage tanks.

### Typical Duties:

- Read and interpret plans
- Mark off on the metal where to cut, drill, bend and carry out other types of work, using measuring and marking-off tools such as rulers, punches and dividers
- Cut marked metal sections using hand tools, flame cutting torches, or metalworking machines such as guillotines and shearing machines
- Shape and bend sections and pipes by forging or using hand and machine tools such as vices, hydraulic presses and rolling machines
- Assemble parts and structures by lining up and joining them by welding, bolting or riveting, or with the aid of cranes and other equipment if the job is large
- Make templates in order to produce large numbers of identical shapes
- Program and operate numerically controlled profile-cutting machines.

### Ideal Personal Requirements to gain an Apprenticeship:

- Physically fit with high degree of manual dexterity
- Good eyesight
- 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 a 4 year apprenticeship
- Trade school training is 'off the job' at a Trade training facility

