

ENGINEERING – FABRICATION TRADE

(BOILERMAKER, STAINLESS STEEL, SHEET METAL 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