

MAKING CAREER CHOICES

FACT SHEETS TO HELP YOU CHOOSE
THE RIGHT CAREER AND STUDY PATH



Boilermaker

Boilermaker, Engineering Tradesperson - Fabrication

Industry Description

Practitioners in this industry may be required to cut, shape, assemble and join heavy gauge metal parts to produce or repair containers that have to withstand pressure, such as ships, boilers and storage tanks. Tasks could include setting up and operating hand and machine tools, finishing products by cleaning, polishing and filing, examining detailed drawings and specifications and assembling parts and structures.

Below are some of the particularly demanding requirements. Reasonable Adjustment may apply for individuals with specific support needs in industry training. The learner should have:

- tolerance for chemicals, odours and other contaminants
- the ability to be responsible for others' health and safety
- the ability to handle and control materials and tools (manual dexterity)
- the ability to stand, bend, crouch and climb for long periods of time
- the ability to read and understand detailed diagrams, patterns and scale drawings
- the ability to listen and follow through on precise work instructions
- the ability to keep your hand and arm steady
- the ability to work in hot, noisy and dusty environments
- the ability to work in confined spaces and at heights.

Below are some of the important personal abilities that are required. The learner should have:

- enjoy working with machines
- have physical fitness
- be able to lift heavy objects
- be safety conscious
- have good hand-eye coordination
- have tolerance of shift work
- be able to work in a team or independently.

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Workplace Health and Safety

All practitioners must understand their workplace health and safety obligations and safety requirements under the:

- *Work Health and Safety Act 2011* which imposes obligations on people at workplaces to ensure workplace health and safety.
- *Work Health and Safety Regulation 2011* that describes what must be done to prevent or control certain hazards which cause injury, illness or death.
- *Codes of Practice*, which are designed to give practical advice about ways to manage exposure to risks common to industry.

All practitioners must be able to participate in Risk Assessments, Incident Reports and Hazard Identification.

More specific workplace health and safety requirements for a boilermaker include:

- No skin or breathing allergies
- Wearing of personal protective equipment is essential.

Legislative or licensing issues

All practitioners must meet the qualification requirements set by industry standards. This may include:

- completing an apprenticeship in Engineering – Fabrication trade.

Resources and further information

For more information on duties, tasks and career and labour market information relating to Boilermaker, please refer to <http://joboutlook.gov.au>.

Industry information/professional associations

Careers in Manufacturing: www.zoomplus.aigroup.asn.au

Manufacturing Skills Australia: www.mskills.com.au

Construction Skills Queensland: www.csq.org.au

My Skills: <https://www.myskills.net.au/>

For career resources to help explore and plan careers, visit www.myfuture.edu.au.

This is intended to be used as a tool for career research, in conjunction with other resources. For specific course information, please refer to the TAFE Queensland website www.tafeqld.edu.au or ring 1300 308 233.



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