







Careers in the defence industry - Welding

Welders weld the metal parts that have been fitted up by the boilermakers or pipe fitters. A First Class Welder carries out welding to build or repair ship structures.



Looking for an exciting and rewarding long term career?

Join the thousands of people using a different set of skills to supply and support our defence forces. WA's defence industry provides stable and local employment in defence related activities such as ship and submarine building, maintenance and sustainment.

To become a first class welder you usually need to undertake an engineering tradesperson fabrication (first class welder) apprenticeship, which takes 42 to 48 months to complete and is available as a school-based apprenticeship.

HAYLEY MAISEY

Apprentice Welder (2nd year) PATHWAY: High school > Apprenticeship

At high school I wanted to learn how things were made so I did metal work. I then did work placement at an engineering company and enjoyed it so much I applied for a welding apprenticeship at a shipbuilding company that designs and builds ships for the Australian Defence Force.

I like that there are so many opportunities in the defence industry, I can learn many different types of welding processes.

I weld the metal plates that get fitted into a block which then becomes part of the ship. When I first saw the whole ship come together it was pretty amazing. I like that welding can take you anywhere. It is heavy work, but it is also **very rewarding**.









Operations

Pathways

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MEM30305 Certificate III in Engineering - Fabrication Trade

LEVEL N2

• Tradesperson - Electrical

· Tradesperson - Welder (First Class)

Light Fabrication Tradesperson

HVAC Tradesperson

 Heavy FabricationTradesperson/ Boilermaker/Welder

Tradesperson – Pipe Fitter/Welder

 Tradesperson – Mechanical Fitter / Machinist (First Class or CNC)

Metal Surface Finisher

Tradesperson – Industrial Painter

Tradesperson – Boatbuilder

Tradesperson – Marine Fabricator

· Fibreglass Fabricator

 Engineering Technician Composites Trade

· Process Operator - Technical

Rigger/Scaffolder

Crane Operator – General

Cabinetmaker Tradesperson

LEVEL N3

Ship Manager/Ship Master

 Marine Engineer/Ship Engineer

Dockmaster

· Mechanical Engineering Technician

 Quality Control Administrator

Quality Control Analyst

 Quality Control Inspector/ Manager

NDT Technician

· Quality Control Technician

· Product Safety Officer

· Safety and Certification Technical Officer

· Test and Activation **Technical Officer**

LEVEL

 Project/Program Planner

 Fabrication/Production Manager

Construction/Site Manager

Operations Manager

· Production Controller

· Facilities Engineer

Quality Control Surveyor

 Dimensional Control Manager

 Quality Assurance and **Product Safety Engineer**

Quality Assurance Officer

 Safety and Certification Engineer

Subsafe Superintendent

· Test and Activation Engineer

KEY

LEVEL 01 - All job titles in Operations that require a skill level of year 10, a senior secondary certification of education, Certificate I or II. Australian apprenticeships may be offered at this level.

LEVEL 02 - All job titles in Operations that require a Certificate III or IV, or at least three years relevant experience. Australian apprenticeships may be offered at this level.

LEVEL 03 - All job titles in Operations that require a Diploma or Advanced Diploma. Study is often undertaken through TAFEs or Registered Training Organisations. Some universities offer studies at this level.

LEVEL 04 - All job titles in Operations that require a Bachelor Degree or higher qualification. Study is often undertaken at a university.

LEVEL

· Trades Assistant





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