


THE DEFENCE INDUSTRY IN SOUTH AUSTRALIA

 **2.4%**
of private and public investment
[\$458m]

 **\$2.5bn**
of total equipment sales

7 
of the world's top defence companies are in South Australia

3.8% 
of Gross State Product [GSP] including 3.2% direct [\$3.7 billion]

 **1.7%**
South Australian Jobs
[14,758 jobs]

Source: Defence SA (2022)

Useful links: defencesa.com findyourplacesa.com myskills.gov.au

CAREER AND TRAINING FOR VETERANS AND TRANSITIONING DEFENCE FORCE MEMBERS

TAFE SA provides a variety of courses designed to support individuals in re-entering the civilian workforce. These include qualifications that offer pathways to careers in the growing defence industry.

You might be eligible to receive recognition of prior training and experience gained during your time in the Australian Defence Force (ADF). This is recognised by TAFE SA as credit or RPL (Recognition of Prior Learning) and helps to reduce the amount of time spent studying at TAFE SA, bringing you one step closer to your new defence industry career.

REDUCED FEES

If you hold a Department of Veterans' Affairs (DVA) card you may be eligible for concession fees for a TAFE SA course.

CAREER PATHWAY EXAMPLES

YOUR DEFENCE ROLE	DEFENCE INDUSTRY ROLE
Marine Technician (Navy)	Mechanical Maintenance Fitter
Electronics Technician (Navy)	Combat Systems Technician
Communication Networks Operator (Navy)	Cyber Security Analyst / Software Developer



tafesa.edu.au/STEP



WORK IN THE DEFENCE INDUSTRY

Frigate image: © 2022 BAE Systems Australia. All rights reserved.

WHAT IS THE DEFENCE INDUSTRY?

The defence industry supports the Australian Defence Force by supplying 'The Workforce Behind the Defence Force'. It is made up of highly skilled workers with trade, technical and science and technology skills to design, manufacture and maintain military equipment and transport, infrastructure and facilities.

Other industry sector responsibilities include intelligence, surveillance and reconnaissance, cyber and other electronic and information-based capabilities.

As major Australian defence projects increase over the next decade, the demand for highly skilled, industry-ready employees is rising. There has never been a better time than now to join this exceptional workforce.

CAREERS IN DEFENCE

Careers in the defence industry are diverse, providing long-term security and opportunities for advancement. Job roles include engineering, cyber security, virtual/augmented reality developers, human resources, design, electronics, and project management.

TAFE SA is committed to growing the defence industry workforce by delivering courses that provide the in-demand skills for people to work in this exciting field.

Whether you are at school, looking for a career change, or job seeking, TAFE SA offers a range of relevant qualifications to help you achieve your career goal.

NAVAL SHIPBUILDING IN SOUTH AUSTRALIA

Over the next three decades, Australia's naval shipbuilding industry will construct and sustain (maintenance, service and upgrade) various vessels for the Australian Defence Force at the Osborne Naval Shipyard. This includes Hunter Class frigates, Hobart Class Air Warfare Destroyers (AWD), Collins Class submarines, and SSN-AUKUS conventionally armed, nuclear-powered submarines.

The naval shipbuilding projects will create thousands of job opportunities for South Australians. You might find yourself working for larger companies like ASC Pty Ltd, BAE Systems Australia, Lockheed Martin Australia, and Saab, or a small-to-medium enterprise that supplies goods and services to these projects.

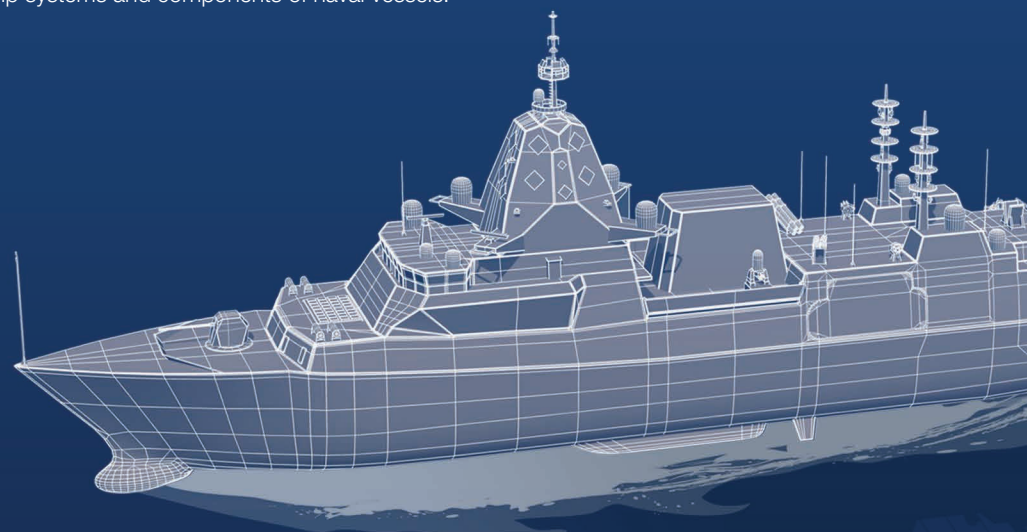
SSN-AUKUS SUBMARINES

The SSN-AUKUS submarines will be the most complex ships ever constructed. They will be based on the UK's next-generation design, incorporating technology from Australia, the UK, and the US. Nuclear-powered submarines offer superior stealth, speed and range.

Joint operations with Allied countries will conduct intelligence, surveillance and reconnaissance during peacetime. These conventionally armed, nuclear-powered submarines, operated by the Royal Australian Navy, will require the attainment of a nuclear mindset for the safe, secure, and effective cradle-to-grave management of this capability.

SHORT COURSE: INTRODUCTION TO NAVAL SHIPBUILDING

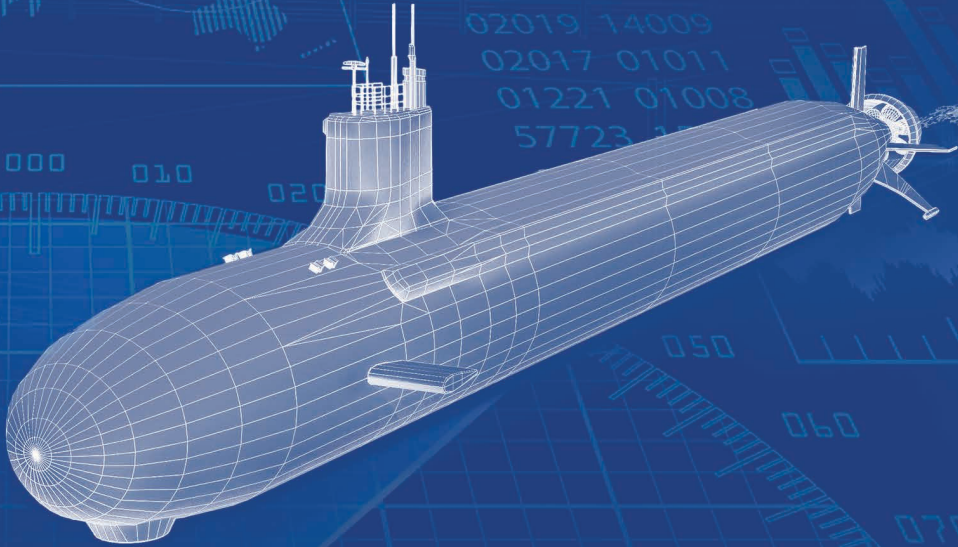
In response to the growing demand for workers to join the naval shipbuilding industry, TAFE SA offers an online micro-credential course designed to familiarise students with this sector. The course covers essential concepts such as terminology, vessel types, ship systems and components of naval vessels.



Go to tafesa.edu.au/defence for up-to-date course information.

NAVAL SHIPBUILDING CAREER OPPORTUNITIES ALIGNED WITH TRAINING FROM TAFE SA AND OTHER VOCATIONAL EDUCATORS.

To view an online version of the infographic, please visit
tafesa.edu.au/defence



GENERAL

TITLE	DESCRIPTION	MEDIAN AUSTRALIAN SALARY	RELEVANT VOCATIONAL QUALIFICATIONS
PROJECT MANAGER	Plans and manages resources for projects to deliver on time and to budget.	Entry Level \$150,000 Experienced \$200,000	> Certificate IV in Project Management Practice (BSB40920) > Diploma of Project Management (BSB50820)
TEAM LEADER	Oversees day-to-day business activities. May supervise others.	Entry Level \$85,000 Experienced \$109,000	> Certificate IV in Leadership and Management (BSB40520) > Diploma of Leadership and Management (BSB50420)
HUMAN RESOURCES MANAGER	Plans and implements recruitment, employee policies and workplace relations activities.	Entry Level \$120,000 Experienced \$200,000	> Diploma of Human Resource Management (BSB50320) > Advanced Diploma of Human Resource Management (BSB60320)
TRAINERS	Designs and delivers high quality training and assessment to oversee apprentices, ensure compliance and safety.	Entry Level \$76,000 Experienced: \$111,000	> Available at RTO's across Australia - Workplace Trainer Skill Set (TAESS00020)
PROCUREMENT	Plans and manages supply of goods and services in and out of organisation.	Entry Level \$70,000 Experienced \$180,000	> Diploma of Business (Procurement) (BSB50120) offered at other registered training organisations (RTO's)
ACCOUNTS OFFICER	Processes and manages accounts receivable/payable and reports financial activities.	Entry Level \$58,000 Experienced \$70,000	> Certificate III in Financial Services (FNS30122) offered at other RTO's. > Certificate III in Accounts Administration (FNS30322) > Certificate IV in Accounting and Bookkeeping (FNS40222) > Diploma of Accounting (FNS50222)
FINANCE MANAGER	Plans and manages accounting activities within an organisation.	Entry level \$120,000 Experienced \$165,000	> Diploma of Accounting (FNS50222)
WORK HEALTH AND SAFETY MANAGER	Ensures health and safety of all employees, manages injuries and return to work.	Entry level \$100,000 Experienced \$150,000	> Certificate IV in Work Health and Safety (BSB41419) > Diploma of Work Health and Safety (BSB51319) offered at other RTO's

INFORMATION TECHNOLOGY

NETWORK AND SYSTEMS ADMINISTRATOR	Implements and maintains network hardware and software.	Entry level \$85,000 Experienced \$110,000	> Certificate III in Information Technology (ICT30120) > Certificate IV in Information Technology (Systems Administration Support) (ICT40120) > Certificate IV in Information Technology (Networking) (ICT40120) > Diploma of Information Technology (Systems Administration) & (Cloud Engineering) (ICT50220)
SOFTWARE DEVELOPER	Designs, implements and maintains software programs.	Entry Level \$80,000 Experienced \$140,000	> Certificate IV in Information Technology (Programming) (ICT40120) > Diploma of Information Technology (Advanced Programming) (ICT50220)
CYBER SECURITY SPECIALIST	Plans and carries out security measures to protect an organisation's computer networks and systems against cyber attacks.	Entry Level \$90,000 Experienced \$145,000	> Certificate IV in Cyber Security (22603VIC) > Diploma of Information Technology (Cyber Security) (ICT50220)

DESIGN

TITLE	DESCRIPTION	MEDIAN AUSTRALIAN SALARY	RELEVANT VOCATIONAL QUALIFICATIONS
CAD DRAFTER & CAD DESIGNER	Modifies 2D and 3D designs of ship and submarine parts and designs for safety, quality and high performance.	Entry Level \$65,000 Experienced \$90,000	> Certificate III in Engineering - Technical (MEM30522) > Diploma of Engineering - Technical (MEM50222)
VIRTUAL/AUGMENTED REALITY DEVELOPER	Uses 3D designs to create VR/AR immersive environments to support design development.	Entry Level \$87,000 Experienced \$150,000	> Diploma of Screen and Media (Animation, Gaming and Visual Effects) (CUA51020)

PRODUCTION (Generally, production salaries are higher than the median in naval shipbuilding.)

BOILERMAKER	Constructs metal components of ships using a variety of tools.	Entry Level \$66,000 Experienced \$93,000	> Certificate II in Engineering Pathways (MEM20422) > Certificate III in Engineering - Fabrication Trade (MEM31922)
WELDER	Joins metal components of ships using a variety of techniques.	Entry Level \$74,500 Experienced \$90,000	> Certificate II in Engineering Pathways (MEM20422) > Certificate III in Engineering - Fabrication Trade (MEM31922)
PIPE FITTER	Constructs and fits metal and plastic pipes, using a variety of tools.	Entry Level \$61,000 Experienced \$109,000	> Certificate II in Engineering Pathways (MEM20422) > Certificate III in Engineering - Fabrication Trade (MEM31922)
MANUFACTURING ENGINEERING TECHNOLOGIST	Experienced tradespeople who develop tools, implements designs, or integrates machinery, equipment, and computer manufacturing processes.	Entry Level \$49,500 Experienced \$64,000	> Diploma of Applied Technologies (22460VIC) or (MEM50822) offered at other RTO's
TEAM LEADER/FOREPERSON	Oversees day-to-day production activities and co-ordinates all resources to build ships.	Entry Level \$92,000 Experienced \$126,000	> Certificate IV in Leadership and Management (BSB40520) > Diploma of Leadership and Management (BSB50420)
WELDING SUPERVISOR/INSPECTOR	Inspects, implements, detects and solves problems to ensure quality standards are met in welding.	Entry Level \$94,000 Experienced \$149,000	> Welder Supervisor Course (Cert 10, AS 1796-2022 & or AS2214) leading to a Weld Australia Certification
CNC MACHINIST	Constructs mechanical systems using a variety of equipment and computer systems.	Entry Level \$67,000 Experienced \$90,000	> Certificate II in Engineering Pathways (MEM20422) > Certificate III in Engineering - Mechanical Trade (MEM30219)
MECHANICAL FITTER/TECHNICIAN	Installs machinery, parts and equipment onto ships.	Entry Level \$76,000 Experienced \$101,000	> Certificate II in Engineering Pathways (MEM20422) > Certificate III in Engineering - Mechanical Trade (MEM30219)
HEATING, VENTILATION AND AIR-CONDITIONING (HVAC) INSTALLER	Installs and inspects equipment for heating, ventilation, cooling and refrigeration systems on ships.	Entry Level \$64,000 Experienced \$108,000	> Certificate II in Electrotechnology (Career Start) (UEE22020) > Certificate III in Air-conditioning and Refrigeration (UEE32220)
REFRIGERATION MECHANIC	Repairs, installs, inspects and maintains air-conditioning and refrigeration appliances on ships.	Entry Level \$66,500 Experienced \$113,000	> Certificate II in Electrotechnology (Career Start) (UEE22020) > Certificate III in Air-conditioning and Refrigeration (UEE32220)
INDUSTRIAL ELECTRICIAN	Constructs and installs electrical systems, equipment and components.	Entry Level \$84,000 Experienced \$116,000	> Certificate II in Electrotechnology (Career Start) (UEE22020) > Certificate III in Electrotechnology Electrician (UEE30820)
ELECTRONICS TECHNICIAN	Constructs and installs electronic equipment such as communication and navigational systems.	Entry Level \$69,000 Experienced \$90,000	> Certificate II in Electrotechnology (Career Start) (UEE22020) > Diploma of Electronics and Communications Engineering (UEE50520)

Based on Commonwealth of Australia data.
Salaries to be used as a guide only and are based on the Median Australian Salary from Payscale, Seek, Hays, Salary Expert, Jora and Talent.com June 2024.
Experienced salary levels may require additional study. Salaries may vary in your location.