



# DEFENCE INDUSTRY CAPABILITY STATEMENT



**South  
Metropolitan**

# South Metropolitan TAFE

South Metropolitan TAFE (SM TAFE) has worked in partnership with the defence sector for more than two decades and delivers a range of qualifications and courses, throughout the state and nationally, to all arms of the defence industry.

Defence industry training can be customised to employers' needs or conducted within the framework of SM TAFE's existing nationally accredited courses and utilising world-class facilities. Pathway programs are in place to bring together schools, TAFE, higher education and the defence sector to attract, train, retain and re-train sector personnel.

SM TAFE training staff consult extensively with key industry stakeholders to ensure a whole-of-workforce development approach is adopted to deliver the right skills at the right time.



## Defence industry training



**Shipbuilding**



**Submarine Maintenance**



**Applied Engineering**



**Composites Trade**



**Logistics and Warehousing**



**Maritime Studies**



**Defence Industry Trades  
(including fabrication and welding)**



**Refrigeration and Air Conditioning**



**Aviation**



## SM TAFE Naval Base campus

**Opened in 2019 to provide students and apprentices with hands-on experience in a real-life industry setting.**

The Naval Base campus houses delivery for heavy fabrication, marine fabrication, welding and composite apprenticeship training with a large focus on Western Australia's growing ship building industry and the anticipated growth in student numbers.

The workshop area at Naval Base campus has been designed specifically with training in mind. It has surface protection which reflects maximum light for student and trainer safety, full height segregation to allow improved safety for hot works, and improved vehicle access to improve safety of staff and students when moving equipment or receiving stores deliveries.

The workshop at Naval Base campus is equipped with brand new state-of-the-art fabrication and welding equipment to cater for ferrous and non-ferrous metals, which will enhance the overall delivery and learning outcomes.

There are 45 welding bays which have been constructed and equipped for multi-use allowing aluminium, TIG, MIG and Oxy welding process types to be conducted. The welding bay layout will enable students to select the correct welding process for the job, encouraging analysis and innovation for the latter stages of an apprenticeship. It also allows trainers to provide a better level of supervision to mixed groups as students can be restricted to an area, independent of individual progress in their studies.

## Naval Shipbuilding College (NSC)

The co-location of the NSC within the Naval Base Campus is seen as being mutually beneficial for both SM TAFE and the NSC assisting to enhance the partnership to meet the needs of the shipbuilding and defence industries.

## Western Australian Defence Industry Workforce Office

SM TAFE's Western Australian Defence Industry Workforce Office is also located at the Naval Base campus. This office will lead the development of the WA Defence Workforce Development Plan, working collaboratively with other TAFE colleges and education and training providers, with input from the WA defence industry. The plan will focus on priority projects across all six capability domains in the Commonwealth Government's Defence Integrated Investment Program. It will also develop a State based skills profile for naval shipbuilding to enable them to increase their capacity and capability to respond to emerging workforce requirements.



### CYBER SECURITY

SM TAFE recently launched its new Training Cyber Security Operations Centre enabling SM TAFE to be the first in the state to deliver a para-professional qualification in cyber security, tapping into the nationwide cyber security skills shortage. The centre will also be available for industry to hire to perform their own simulated scenarios, allowing investigations to test security posture in an office scale development environment and train staff on potentially hazardous IT scenarios in a safe controlled space.



### AUTOMATION

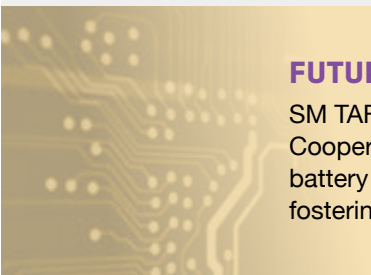
Together with Rio Tinto, one of the world's largest mining corporations, SM TAFE has launched Australia's first nationally accredited automation courses. A curriculum package has been developed with input from the mining and resources industry with the aim to support the industry's shift towards greater safety and productivity.



### INDUSTRY 4.0

The WA pilot of an applied technologies course is currently being developed. The course will prepare individuals to undertake paraprofessional technical roles within the industry 4.0 manufacturing and /or engineering environments.

SM TAFE as part of a collaboration with the University of Western Australia is seeking to identify where gaps may exist in national vocational education training products it currently makes available to the oil and gas sector relative to Industry 4.0.



### FUTURE BATTERY INDUSTRIES

SM TAFE is collaborating with Curtin University for a Future Battery Industries Cooperative Research Centre initiative to assess the validity and ability of integrating battery industries principles and standards training and explore possibilities of fostering new innovations in training.

# Training delivery

Full-time and part-time, online and on site – SM TAFE’s workforce development and training options can be designed to meet the demands of its industry partners. Project-based learning and the use of state-of-the-art simulators is integrated into training that can also be customised to address specific skill sets within broader qualifications.

## SM TAFE SERVICE DELIVERY FRAMEWORK



## Major partnerships

**SM TAFE has an impressive track record of collaborating with major partners in the defence sector.**

### **AUSTRALIAN SUBMARINE CORPORATION (ASC) – COLLINS CLASS SUBMARINE TRAINING SERVICES**

Since 2002, SM TAFE has partnered with ASC to provide a dedicated team of training system specialists, curriculum development consultants and training technology experts at the Submarine Training and Systems Centre at HMAS Stirling on Garden Island. Working closely with ASC and the Royal Australian Navy (RAN), SM TAFE provides training and support services to assist in the training of submariners. SM TAFE has also trained more than 45 apprentices indentured to ASC over the past ten years.

### **SCIENTIFIC MANAGEMENT ASSOCIATES (OPERATIONS) PTY LTD (SMA) – TECHNICAL TRAINING SERVICES FOR ROYAL AUSTRALIAN NAVY**

SM TAFE has a longstanding relationship with SMA to deliver a wide range of trade and post-trade training programs for the Navy. These include specialist Navy courses encompassing hull, propulsion and diesel maintenance, electrical systems, maritime operations and control systems.

# The future of defence: educational pathways and partnerships

SM TAFE offers numerous dedicated defence programs that create a seamless pathway between schools, TAFE, higher education and the defence sector. High school students in years 11 and 12 can begin their defence industry career journey via a range of study areas through SM TAFE's VET in Schools programs.

VET in Schools defence career programs encompass:

- Shipbuilding
- Logistics and warehousing
- Submarine maintenance
- Defence trades
- Engineering
- Maritime studies

## STEM pathways

SM TAFE has partnered with Cecil Andrews Senior High School in a program that brings together high schools and industry to promote career options that arise from the study of STEM subjects (science, technology, engineering and mathematics).

SM TAFE manages delivery components within the P-TECH (Pathways in Technology) program, helping students transition from school to employment or further training and post-school qualifications. Work experience, industry mentoring, defence career advice and STEM subject study support are among the benefits enjoyed by participating students.

Industry partners include Austal, Cvmec, Thales, Deloitte and Datacom.





## Snapshot

South Metropolitan TAFE is one of Western Australia's most diverse training providers with 12 campuses across the southern suburbs of the Metropolitan area. In 2018 SM TAFE delivered over 330 qualifications to more than 26,000 students, trained over 5000 apprentices, 800 trainees and nearly 2000 international students on and offshore.





**South  
Metropolitan**

*We're working for  
Western Australia.*

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