



**STPATRICK'S**  
Technical College



# METALS & ENGINEERING

Certificate II in Engineering Pathways  
MEM20422

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UNIQUE** | Discover why  
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YEAR 10-12  
EDUCATION,  
TRAINING &  
APPRENTICESHIP  
PATHWAYS



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YEAR 10 TO 12 EDUCATION, TRAINING & APPRENTICESHIP PATHWAYS

## VOCATIONAL EDUCATION & TRAINING COURSES

Year 11 and 12 students participate in a range of trade preparation VET courses which are offered as an integral part of the curriculum and contribute towards the achievement of the SACE. Trade preparation VET courses provide pathways into apprenticeships and traineeships through which students gain tertiary qualifications.

The trade training students experience can act as a bridge between school and entry into further tertiary qualifications. Certificate II and III qualifications are achieved by satisfactory completion of the required number of competencies in nationally accredited courses. Each competency has an allocated number of nominal hours required to successfully achieve the competency. These hours are transferred into credits for achieving the SACE.

Students undertaking VET courses:

- gain practical and employability skills that employers recognise;
- gain credit transfer and/or advanced standing into other training courses;
- make valuable contacts with employers;
- prepare themselves for the world of work;
- can gain a nationally recognised vocational qualification in addition to their SACE.

*PEER (RTO Code 45744) is responsible for the quality of accredited training and assessment provided and for the issuing of all qualifications and statements of attainment.*

As part of the manufacturing and design industry, engineering offers the opportunity to be involved in broad-based skills areas driven by technology and design. This course will give you foundation skills to operate tools and equipment to produce and modify objects. You will learn basic welding skills, communication skills and explore career options in the engineering and manufacturing industry.

## POSSIBLE CAREER PATHWAYS

The Metals & Engineering program prepares you for a career in the manufacturing, engineering, advanced manufacturing, mining, resources and defence industries. Possible career pathways include:

- Boiler or Engine Operator
- Boilermaker's Assistant
- Fitter's Assistant
- Engineering Production Worker
- Metal Engineering Process Worker

UNIT CODE	UNIT TITLE	HOURS
MEM13015	Work safely and effectively in manufacturing and engineering	40
MEMPE005	Develop a career plan for the engineering and manufacturing industries	20
MEMPE006	Undertake a basic engineering project	80
MSMENV272	Participate in environmentally sustainable work practices	30
<b>ELECTIVES (subject to change)</b>		
MEM11011	Undertake manual handling	20
MEM16006	Organise and communicate information	20
MEM18001	Use hand tools	20
MEM18002	Use power tools/hand held operations	20
MEMPE001	Use engineering workshop machines	60
MEMPE002	Use electric welding machines	40
MEMPE007	Pull apart and reassemble engineering mechanisms	30
MSMSUP106	Work in a team	30

## INNOVATIVE STRUCTURE AND DELIVERY

St Patrick's Technical College offers great flexibility in its curriculum and timetabling to support and recognise the importance a wide variety of learning experiences plays in the development of students. The College maximises the use of SACE framework subjects to create subject specific content relevant to the changing demands of the trade courses it offers.

SACE subjects, including core Language, Literacy, Numeracy and Digital Literacy (LLND) programs, are specifically developed and delivered within a VET context.

## ST PATRICK'S TECHNICAL COLLEGE

2-6 Hooke Road Edinburgh North SA 5113

T 08 8209 3700 | E [info@stpatstech.sa.edu.au](mailto:info@stpatstech.sa.edu.au) | [www.stpatstech.sa.edu.au](http://www.stpatstech.sa.edu.au)

