



## A career pathway in: **Engineering**

Like the idea of working  
with metal and a career in  
the Engineering,  
Manufacturing or  
Fabrication Sectors?

Do you want to be an  
Engineering Tradesperson,  
a Fitter and Turner or  
Product Designer?

Start working toward your  
trade career today.

At Ranges TEC you can complete a certificate  
II trade course together with the VCE VM  
(Vocational Major).

Ranges TEC is a school for students in Years  
10, 11 and 12 with purpose built trade  
training facilities. Ranges TEC offers a unique  
learning experience in a supportive Christian  
environment.

Current as at November 2022

### EMPLOYMENT/CAREER OPPORTUNITIES

The main aim of this course is to provide you with  
the opportunity to gain basic training in the four  
main areas of engineering: mechanical, production,  
fabrication and electrical.

You will be able to make better informed choices  
relating to future careers and enhance your  
prospects of securing an apprenticeship in an  
engineering trade by providing you with a solid  
skills base.

Career paths within the engineering industry may  
include: Metal Manufacturing Industries,  
Maintenance Engineer, Aircraft Mechanic, Drafting,  
Panel Beating, Welding, Vehicle Body maker.

Pathways to further education include: Certificate  
III and IV studies in related fields, diploma/degree  
studies in an applied environment (e.g. TAFE) or  
university studies upon completion of appropriate  
articulation arrangements.



### COURSE OUTLINE

#### First year units:

**MEM13014A** Apply principles of OHS in the  
work environment

**MEM16006** Organise and communicate  
information

**MEM16008** Interact with computing  
technology

**MEM18001** Use hand tools

**MEM18002** Use power tools/hand held  
operations

**VU20909** Develop an individual career plan  
for the engineering industry

**VU20912** Perform basic machining processes

**VU20913** Apply basic fabrication techniques

#### Second year units

**MEM12024** Perform computations

**MSMENV272** Participate in environmentally  
sustainable work practices

**MSS402040** Apply 5S procedures

**VU20903** Produce basic engineering  
components and products using fabrication  
and machining

**VU20910** Produce basic engineering  
sketches and drawings

**VU20911** Handle engineering materials

**Assessment:** Assessment may involve a  
combination of demonstration of practical  
tasks, assignments, and quizzes.

## EDUCATION

### CREDIT IN THE VCE

Students who complete this certificate are eligible for four units credit towards their VCE: two units at Units 1 and 2 and a Units 3 and 4 sequence.

VCE Students may undertake scored assessment as part of this course, which contributes to their ATAR result. The scored assessment is based on a series of three school assessed tasks and a 90 minute examination.

### VCE VM

This program is suitable for the industry skills component of a VCE VM course.

### AWARD

On Successful completion of this program students will be awarded 22470VIC Certificate II Engineering studies.

Students who partially complete this qualification will receive a statement of attainment listing units successfully completed.

## REQUIREMENTS

### Workwear & PPE:

- Steel cap, slip resistant, leather boots
- Work pants, long or short
- Hi-visibility cotton shirt with collar (non-flammable)
- Banded ear plugs
- Safety glasses

All other necessary equipment & PPE will be available for student use. If you attend Ranges TEC classes without the appropriate clothing or PPE items you will be excluded from practical classes.

### Stationery:

- Pencil case with pens, pencils eraser, sharpener, highlighter & ruler
- A4 4 ring binder (28-50ml) and binder book



## ENROLMENT

### a. Full time Ranges TEC students:

Talk to the Ranges TEC Director or your home room teacher about your Cert II course preference and how that fits with your overall learning plan at Ranges TEC.

### b. (1 day per week) VET students:

Apply to have your name added to the list for Cert II courses at Ranges TEC through the VET coordinator at your home school.

Students who are not from VET cluster schools can contact Ranges TEC office directly: Ph. 9738 7100.

If there are places available, you will be invited to submit a Ranges TEC enrolment form and attend orientation in December, prior to the beginning of the course.

## COURSE COST

a. **Full time Ranges TEC students:** Fees of Cert II courses delivered at Ranges TEC are included in the overall Ranges TEC tuition & materials fee.

b. **(1 day per week) VET students:** (2024 Fees)

Tuition fee: **\$2,800pa** and Materials fee: **\$550pa**.

Ranges TEC will either invoice students directly or students will receive payment instructions via their home schools. (Most home schools have their own arrangements for invoicing students. Please refer to your home school for details).

If more than one year level of a Cert II course is undertaken, extra fees will apply.

## DELIVERY

**Location:** 9 Hightech Place, Lilydale. 3140.

**When:** Ranges TEC delivers VET courses on Wednesdays and Thursdays. Course times are announced in September each year.

**Course duration:** 62 weeks (over 8 school terms)

**RECOGNITION OF PRIOR LEARNING** Students who feel that they have previous education or work skills may apply to the VET Coordinator to have their current competencies assessed. More information about RPL is available in the Ranges TEC Student Handbook

**Recognition of AQF Qualifications & Statements of Attainment** If you have already successfully completed a unit/course at another RTO you don't have to do it again. One of the most important features of the Australian Quality Training Framework is the mutual recognition of training organisations and qualifications including Statements of Attainment. As a registered training organisation Ranges TEC must accept the credentials issued by another registered training organisation based in any State/Territory of Australia. Ranges TEC undertakes to ensure that all Certificates and Statements of Attainment issued by any other registered training organisation are accepted as valid. Equally, the Qualifications and Statements of Attainment issued by Ranges TEC will be recognised Australia wide under these arrangements.

**COMPLAINTS POLICY** Students who feel that they have been unfairly treated as part of their enrolment or during their studies may access the Complaints and Appeals policy through the Ranges TEC website:

**EQUITY AND ACCESS** Equity is a term used to cover issues relating to access to VET, participation in VET, and achievement of outcomes in VET. Equity issues range from providing a supportive learning environment to adjusting assessments to meet individual circumstances. Basically, equity refers to the ability to achieve results in training and to receive training in an inclusive environment with inclusive materials. An inclusive environment or set of materials is one that acknowledges and values the differences between people and cultures. It includes rather than excludes.

Ranges TEC is committed to ensuring that all prospective clients are able to participate and have the opportunity to build on their potential, make choices and receive responsive and appropriate products and services. Whilst the destination for all learners may be the same (i.e. demonstrating competence to the standard required), the journey may be different. Ranges TEC aims to ensure equity by being flexible and responsive and avoiding a 'one size fits all' solution to training and assessment.