

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 Victorian Certificate of Applied Learning (VCAL).

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.

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 Occupational Health and Safety in the work environment

MEM16006A Organise and communicate information

MEM16008A Interact with computing technology

MEM18001C Use hand tools

MEM18002B 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

MEM12024A Perform computations

MSAENV272B Participate in environmentally sustainable work practices

MSS402040A 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.

VCAL

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

AWARD

On Successful completion of this program students will be awarded 22209VIC Certificate II Engineering studies.

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

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)

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:

Tuition fee: **\$1500pa** and Materials fee: **\$450pa.**

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.



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.