ranges tec
more than skills

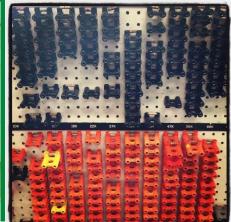**RTO 22559**

22499VIC
Certificate II in
Electrotechnology Studies

COURSE OUTLINE

A career pathway in:

Electrotechnology

Like the idea of working with all things electrical and electronic, or a career in the renewable energy sector?

Do you want to be an Electrical or Electronics Engineer, Electrical Fitter or Electrician?

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

This course provides the opportunity for those wishing to gain employment in the electrotechnology industry with the required prerequisite knowledge and skills to gain access to a wide range of apprenticeships offered within this industry.

In particular, the course provides training in basic electrical theory, electrical workshop practices, wiring and basic installation skills, the use of hand and power tools and an overview of the electrotechnology industry and the range of occupations within it.

Further training pathways from this qualification may include:

Certificate III in Electrotechnology Electrician

Certificate III in Renewable Energy – ELV

Certificate III in Electronics and Communications

Certificate III in Computer Systems Equipment

See training.gov.au for more information

First year units:

HLTAID011 Provide first aid

CPCWHS1001 Work safely in the construction industry

UEENEEE101A Apply occupational health and safety regulations, codes and practices in the workplace

UEENEEE105A Fix and secure electrotechnology equipment

VU22670 Provide an overview of the electrotechnology industry

UEENEEE103A Solve problems in extra low voltage single path circuits

UEENEEJ104A Establish the basic operating conditions of air conditioning systems

VU22671 Use test instruments in the electrotechnology industry

VU22673 Carry out basic network cabling for extra low voltage equipment and devices

Second year units

UEENEEE102A Fabricate, assemble and dismantle utilities industry components

UEENEEE141A Use of routine equipment plant technologies in an energy sector environment

VU22672 Carry out a basic electrotechnology project

VU22333 Perform intermediate engineering computations

VU21544 Install a sustainable extra low voltage energy power system

VU22669 Perform energy sector installations of Extra Low Voltage (ELV) single path circuits

NATIONALLY RECOGNISED TRAINING

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 22499VIC Certificate II Electrotechnology 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: **$2800pa** 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 Wednesday and Thursdays. Course times are announced in September each year.
Course duration: 62 weeks (over 8 school terms)