

# VET

## VET Delivered to Secondary Students

### Certificate II in Engineering Studies 22470VIC

2022

#### Course Description

The Certificate II in Engineering Studies provides students with a solid foundation in the basic principles of engineering. It focuses on four main areas: Fabrication, Electrical/Electronics, Production and Mechanical.

Students will gain an overview of engineering and the career opportunities available.

#### Who should apply?

Students considering advanced training in a broad range of engineering related fields.

#### Possible job outcomes

This course will provide students with increased opportunity to gain an apprenticeship in Fitting and Turning or Electrical and Metal Fabrication. They may also seek employment as a trade assistant or process or production worker in the metals manufacturing industry. Engineering Trades of the future including robotics are in demand.

#### Program Structure

2 year program minimum  
Delivered one afternoon a week with a week of holiday block training

#### Special requirements

Student's workbook, safety glasses, project materials, overalls safety boots, hat or hairnet and drawing equipment.

#### Pathways

This course has been designed to articulate into the trade-based Certificate III or and Advanced Certificate or Associate Diploma in Engineering at TAFE. University diploma and degree level courses may also be available.



#### VCE subjects

It is recommended that the following subjects be undertaken:  
English 1 and 2; or Mathematics 1 and 2

#### Work placements

The VCAA strongly recommends that the students undertake a minimum of 80 hours of structured workplace learning over the 2 years.

#### Contribution to the VCE

Students undertaking Certificate II in Engineering are eligible for credit of up to four VCE VET units on their VCE Statement of Results: two units at Unit 1-2 level and a Unit 3-4 sequence.

Students have the option to undertake scored assessment, and the study score can be fully counted as one of the student's best four studies for ATAR purposes, or will count as a fifth or sixth study increment, if it is not one of the student's four highest scores.

This certificate will satisfy learning outcomes for the industry specific skills and work-related skills strands in the VCAL program.

#### Benefits

- Completion of both VCE and VET certificates
- Possible exemptions from other TAFE courses
- Possible contribution of up to four VCE units at 1-2 level and as a 3-4 sequence
- Possible contribution to ATAR score
- Pathways for further training
- Nationally recognised qualification

# VET

## VET Delivered to Secondary Students

### UNIT OUTLINE

VCE VET Units 1 & 2 (1 <sup>st</sup> Years)		
Code	Units of Competence	Nominal Hours
<b>Compulsory</b>		
MEM13014A	Apply principles of Occupational Health and Safety	10
MEM18001C	Use hand tools	20
VU22329	Report on a range of sectors in manufacturing engineering and related industries	30
VU22330	Select and interpret drawings and prepare three dimensional (#D) sketches and drawings	20
VU22331	Perform basic machining processes	40
VU22332	Apply basic fabrication techniques	40
<b>Electives</b>		
MEM18002B	Use power tools/hand held operation	20
MEM30011A	Set up basic pneumatic circuits	40
<b>Subtotal</b>		<b>220</b>
VCE VET Units 3 & 4 (2 <sup>nd</sup> Year) Scored Program		
Code	Units of Competence	Nominal Hours
<b>Compulsory</b>		
MEMPE006A	Undertake a basic engineering project	80
VU22333	Perform intermediate engineering computations	40
<b>Electives</b>		
VU22338	Configure and program a basic robotic system	60
VU22340	Use 3D printing to create products	40
<b>Subtotal</b>		<b>220</b>
<b>TOTAL</b>		<b>440</b>

# VET

## VET Delivered to Secondary Students

### Certificate II in Engineering Studies 22470VIC

### RESOURCES & COSTS

#### VET DSS Materials Fee 2022 -GUIDE ONLY TBC

#### First year

##### Fees & Charges:

Workbooks Folder 1	- \$ 25.00	<input type="checkbox"/>
Material Fee	- \$ 115.00	<input type="checkbox"/>
<b>TOTAL</b>	<b>\$ 140.00</b>	

#### Second year

##### Fees & Charges:

Workbooks Folder 2	- \$ 10.00	<input type="checkbox"/>
Material Fee	- \$ 102.00	<input type="checkbox"/>
<b>TOTAL</b>	<b>\$ 112.00</b>	

Portland students can purchase and collect module books from the Portland Campus reception.

Payment can be made by cheque, cash or over the phone payment by parent using credit card.

All Resource books **must be paid for within 2 weeks** of the student starting their TAFE in Schools VET DSS program.

For bookshop information contact (03) 5564 8951

---

Student Name: \_\_\_\_\_ Date: \_\_\_\_\_

School: \_\_\_\_\_ Receipt Number: \_\_\_\_\_