

VET Delivered to Secondary Students 2024

Certificate II in Engineering Studies (22470VIC)

PROGRAM DESCRIPTION

The Certificate II in Engineering Studies program provides students with a solid foundation in the basic principles of engineering. This program provides students with increased opportunity to gain an apprenticeship in Fitting and Turning or Electrical and Metal Fabrication industries.

WHO SHOULD APPLY?

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

It can lead onto apprenticeships and traineeships. People working in trades are in high demand and its one of the biggest employment sectors in the country.

PROGRAM STRUCTURE

2 year program

Delivered one afternoon

School Holiday Block Training 24 June- 28 June 2024 (TBC)

Location: SWTAFE Portland Campus

SPECIAL REQUIREMENTS

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

PATHWAYS

Pathways include Certificate III in Engineering -Fabrication Trade, Certificate III in Engineering – Mechanical Trade, Certificate IV in Engineering or Diploma of Engineering.

VCE SUBJECTS

It is recommended that the following units be undertaken:

- English units 1 to 4
- General Maths units 1 to 4
- Product Design and Technology units 1 to 4

WORK PLACEMENTS

The VCAA strongly recommends a minimum 80 hours of work placement for this program.

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.

BENEFITS

- Completion of both VCE and VET certificates
- Possible credits from other TAFE courses
- Contribution toward VCE units 1-4
- Opportunity to undertake work placement
- Accredited entry level for other TAFE and university courses
- Pathways to further training

WOULD YOU LIKE TO APPLY?



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UNIT OUTLINE

VCE VET Units 1 & 2

Code	Units of Competence	Nominal Hours
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 (3D) sketches and drawings	20
VU22331	Perform basic machining processes	40
VU22332	Apply basic fabrication techniques	40
MEM18002B	Use power tools/hand held operation	20
MEM30011A	Set up basic pneumatic circuits	40
	Subtotal	220

VCE VET Units 3 & 4

Code	Units of Competence	Nominal Hours
MEMPE006A	Undertake a basic engineering project	80
VU22333	Perform intermediate engineering computations	40
VU22338	Configure and program a basic robotic system	60
VU22340	Use 3D printing to create products	40
	Subtotal	220
	TOTAL	440

Course in Transition

This qualification is superseded and course updates are occurring.

To ensure course content is relevant and industry-specific, industry is constantly having input into this training package. The course code, title, units, and content may change in the future and you may be enrolled in the new qualification. Further information will be provided on our website, upon enrolment and/or during the course of your training.