

# 22470VIC Certificate II in Engineering Studies 2022

**This VET Program has been designed for students who are interested in developing skills in engineering to follow pathways into further education or employment.**

## COURSE AIMS

Students will learn a wide variety of skills including basic fabrication techniques, using power tools and engineering machinery, creating and interpreting sketches and drawings as well as applying Occupational Health and Safety procedures to the workplace.

## CONTRIBUTION TO VCAL/VCE

**VCAL:** One credit towards a VCAL learning program is awarded on successful completion of 90 nominal hours of accredited VET curriculum.

**VCE:** Students who complete this Program may be eligible for recognition of two or more units at units 1 & 2 level and a units 3 & 4 sequence.

**ATAR:** Students wishing to receive an ATAR contribution for the Units 3 and 4 sequence must undertake scored assessment for the purposes of gaining a study score. This study score can contribute directly to the primary four or as a fifth or sixth study.

Where a student elects not to receive a study score for VCE VET Engineering, no contribution to the ATAR will be available.

*Please note: The student must already have English and three other fully scored VCE/VET subjects to create the primary four.*

## POTENTIAL PATHWAYS

- Certificate III in Engineering
- Certificate IV in Engineering

- Diploma of Engineering—various streams
- Advanced Diploma of Engineering
- Bachelor of Engineering

## POTENTIAL OCCUPATIONS

- Manufacturing engineering
- Fitter and machinist
- Sheet metal worker
- CNC operator
- Production welder
- Fabricator (light and heavy)

## ADDITIONAL REQUIREMENTS/ INFORMATION

Prior to commencement of this Program students must undertake a Pre-training review and a Language, Literacy and Numeracy evaluation (LLN).

**1st and 2nd year Programs have three full delivery days in Terms 1, 2 and 3.**

## OCCUPATIONAL HEALTH & SAFETY

Students are required to wear protective footwear and other protective items as required under OH&S legislation. More information will be provided at

## NATIONAL OR STATE ACCREDITATION

National

## REGISTERED TRAINING ORGANISATION

Federation TAFE (RTO CODE 4909)

## RTO CODE

4909

## PROGRAM LOCATION

Federation TAFE, SMB Campus  
Grant Street, Ballarat

## PROGRAM LENGTH

2 years

## DAY AND TIME

1st year – Thursday 1.45pm to 5.30pm  
2nd year – Tuesday 1.45pm to 5.30pm

## PROGRAM MATERIAL COSTS (APPROXIMATE ONLY)

1st year – \$148  
2nd year – \$103

## STRUCTURED WORKPLACE LEARNING

Strongly recommended - 80 hrs / 2 weeks minimum over total Program

## OUTCOMES

Satisfactory completion of this two year Program entitles the student to a 22470VIC Certificate II in Engineering Studies.

## ENROLMENT TYPE

VE1

*Commencement of Program will be dependent on adequate student numbers for enrolment and funding. Programs and units of competency are subject to change prior to commencement. This training is delivered with Victorian and Commonwealth Government funding to eligible individuals.*

## 1ST YEAR UNITS OF COMPETENCY

MEM13014A	Apply principles of occupational health and safety in the work environment
VU22332	Apply basic fabrication techniques
MEM18001C	Use hand tools
MEM18002B	Use power tools/hand held operations
VU22336	Perform metal fabrication operations
VU22329	Report on a range of sectors in the manufacturing engineering and related industries
VU22330	Select and interpret drawings and prepare three dimensional (3D) sketches and drawings
VU22331	Perform basic machining processes

## 2ND YEAR UNITS OF COMPETENCY

MEMPE006A	Undertake a basic engineering project
VU22333	Perform intermediate engineering computations
VU22337	Perform basic welding and thermal outline processes to fabricate engineering structure