

Engineering



22470VIC CERTIFICATE II IN ENGINEERING STUDIES

What it is

Engineering can be broadly described as the branch of science and technology concerned with the design, building, use of engines, machines and structures.

This program aims to instil positive perceptions of the engineering related industries. Students are introduced to a wide range of employment opportunities, career choices, study pathways and further training in the engineering, manufacturing and related industries.

Note: Suitable for Year 11 students

What you learn

You learn from the following subjects (Units of Competency):

FIRST YEAR

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

SECOND YEAR

- ✓ Undertake a basic engineering project MEMPE006A
- ✓ Perform intermediate engineering computations VU22333
- ✓ Perform basic welding and thermal cutting processes to fabricate engineering structures VU22337

This program is transitioning to a new qualification and is subject to going on scope. (Refer to Page 6 of this Program Guide).

Who you learn from

YOUR INDUSTRY EXPERT

Federation University Australia
RTO Code 4909

WHERE YOU LEARN

Federation TAFE
Manufacturing and Engineering
Skills Centre, SMB Campus, Grant
Street, Ballarat

WHEN

1st Year

Thursday 1.45pm to 5.30pm

Class size: 12 to 15 students

2nd Year

Tuesday 1.45pm to 5.30pm



“Science can amuse and fascinate us all, but it is engineering that changes the world.”

ISAAC ASIMOV

What you get

Upon successful completion of the program, students are eligible to obtain:

School recognition

Credit/Unit eligibility towards your relevant Senior Secondary Certificate. Scored assessment is available for this program. Check with your school for more details

Workplace recognition

1. 22470VIC Certificate II in Engineering Studies (once all units satisfactorily completed)
2. Statement of Attainment (List of the Units of Competency which have been successfully completed)

Your possible career/pathway

Students completing this program and wishing to enter an apprenticeship have experienced a high success rate of 75%.

Learn more

Certificate III in Engineering – Fabrication Trade MEM30319

Certificate IV in Engineering MEM40119

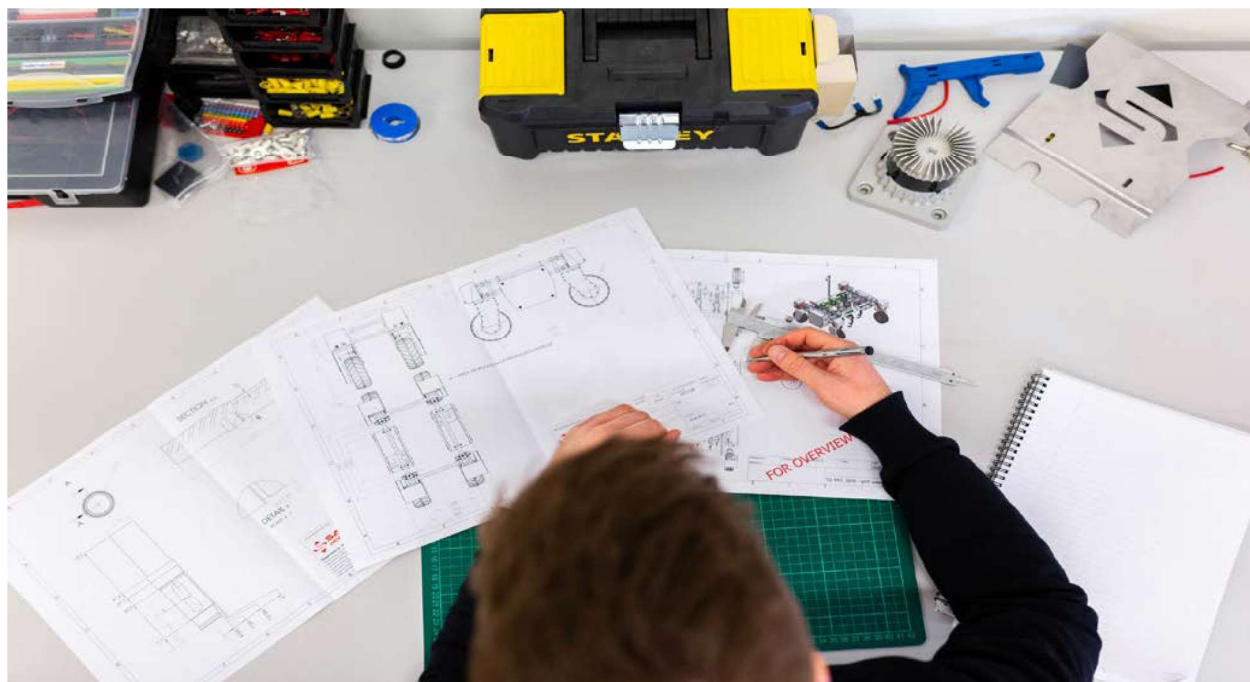
Diploma of Engineering – Technical MEM50212

Employment

Job roles related to this qualification include: Manufacturing engineer, Fitter and machinist, Sheet metal worker, Production welder, Fabricator (light and heavy).

What the program looks/sounds like

Watch a **Get VET** video of a student explaining the program, by accessing <https://bit.ly/2BmFAGS>



Note: Program commencement subject to enrolment numbers. Units of Competency are subject to change. Check with your school VET Coordinator regarding costs and if this program is suitable for you. This training is delivered with Victorian and Commonwealth Government funding to eligible individuals. All details are accurate at the time of publication.

