

Engineering

(Suitable for Year 11 students)



22632VIC CERTIFICATE II IN ENGINEERING STUDIES

What it is

This pre-employment program is designed to prepare students for entry level employment such as an apprenticeship, in the engineering, manufacturing or related industries. Engineering can be broadly described as the branch of science and technology concerned with the design, building, use of engines, machines and structures.

Students learn about technical and procedural engineering. They research engineering materials and components and plan, create, manufacture and develop a metals-based basic engineering project.

What you learn

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

FIRST YEAR

- ✓ Apply occupational health and safety principles in an engineering environment VU23481
- ✓ Apply basic fabrication techniques VU23479
- ✓ Safely use hand tools and hand held power tools for general engineering applications VU23475
- ✓ Report on the sectors and employment in the manufacturing engineering and related industries VU23476
- ✓ Interpret and prepare basic two and three dimensional engineering drawings VU23477
- ✓ Perform basic machining processes VU23478

SECOND YEAR

- ✓ Undertake a basic engineering project MEMPE006
- ✓ Perform intermediate engineering computations VU23480
- ✓ Perform basic welding and thermal cutting processes VU23485

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 14 students

2nd Year

Tuesday 1.45pm to 5.30pm

One full day delivery each term
9.00am to 3.30pm for 1st Year



“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. 22632VIC 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 MEM31922

Certificate IV in Engineering MEM40119

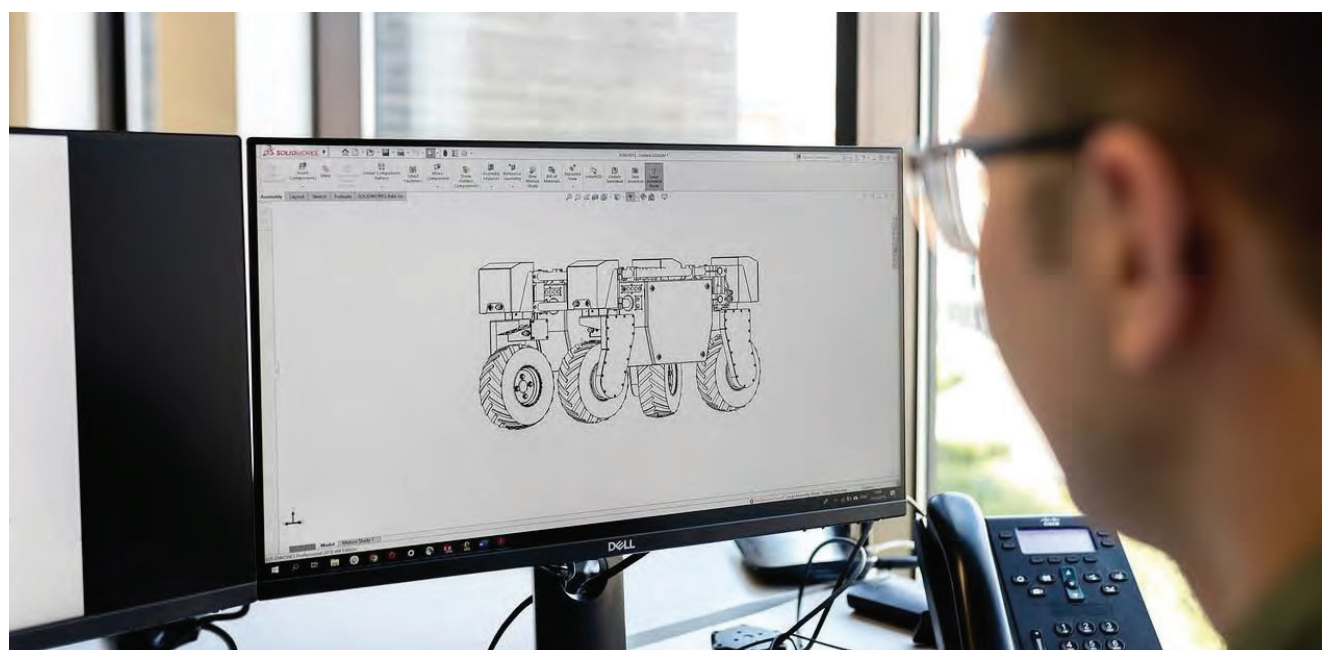
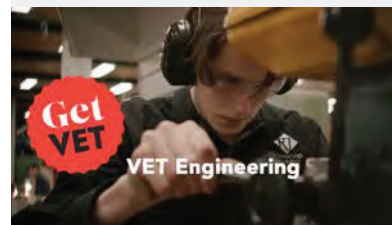
Diploma of Engineering – Technical MEM50212

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.

