

22209VIC Certificate II in Engineering Studies Course Information Brochure



This course is subject to change in 2019

Description of Course

The course provides students with the skills and knowledge to pursue an apprenticeship in the engineering trades or with a foundation for professional engineering roles. Units 1 & 2 cover areas in computer technology and using hand and power tools. We offer set electives in fabrication, machining, general and technical engineering. Units 3 and 4 offers scored assessment and incorporates units such as producing basic engineering sketches and drawings, handling engineering materials, performing computations. A simple way to think of this course is “Metalwork and Maths.”

Activities/task

Projects made in Units 1 & 2 include vice soft jaws, sheet metal tool box, centre punch, soft face mallet and an engineer’s square. Students doing Units 3 & 4 are required to construct a major project and document the project in a portfolio. Other teacher directed tasks are allocated as necessary to meet competencies.

Assessment

Units of competency are assessed by a variety of assessment methods including observation, class exercises, participation, written assignments and tests.

Students wishing to receive a study score for 22209VIC Certificate II in Engineering Studies can undertake scored assessment.

Students will be given a fair and adequate assessment process that includes multiple opportunities to demonstrate competency. Students must attend 80% of all classes and successfully complete all units of competency to obtain their certificate II qualification.

Eligibility and Prerequisites

Sound year 9 - 10 basic language, literacy and numeracy levels are desired. The VCE VET Engineering Program will satisfy the eligibility requirement for the Industry Specific Skills and Work Related Skills Strand. If you have any individual needs please contact us to discuss the options available to you.

Course Content

Units 1 & 2

Core

MEM13014A	Apply principles of occupational health and safety in a work environment
MEM16006A	Organise and communicate information
MEM16008A	Interact with computing technology
MEM18001C	Use hand tools
MEM18002B	Use power tools/hand held operations
VU20909	Develop an individual career plan for the engineering industry

Electives

VU20912	Perform basic machining processes
VU20916	Create engineering drawings using computer aided systems
VU20913	Apply basic fabrication techniques

Units 3&4

Core Units

MEM12024A

Perform computations

MSAENV272B

Participate in environmentally sustainable work practices

VU20910

Produce basic engineering sketches and drawings

VU20911

Handle engineering materials

MSS402040A

Apply 5S procedures

Electives

VU20903

Produce basic engineering components and products using fabrication or machining

Benefits of this training

This course offers a VCE study score in year 12 through scored assessment which can contribute directly to the ATAR as one of a student's primary four scaled studies or as the fifth or sixth study. The VCE VET Engineering Program is available for students who are enrolled in the VCAL program. The contribution of the VCE VET Engineering program to a student's VCAL program is determined by the number of units of competency successfully completed.

Pathways

Certificate II in Engineering Studies provides pre-employment training and pathways in the engineering, manufacturing or other related industries. The course assists students in pursuing a career in the engineering, manufacturing or related industries through vocational or higher education pathways. Apprenticeships and traineeships can lead into a range of careers in design, manufacture, installation and repair of a wide range of equipment and machinery. As a qualified tradesperson, occupations include boilermaker, welder, toolmaker/die maker, hydraulics, avionics or mechanical technician, draftsman and mechanical fitter. There are pathways into professional careers in the engineering industry such as a mechanical engineer, electrical engineer and surveying.

Course Fees

VET students from other schools have separate fee arrangements with their own schools for VET course costs. All training resources are provided when classes commence. NCAT students please see the Payment Form – Material Charges.

For safety reasons there is a NCAT uniform for this course which is not included in the materials cost. Parents will receive a letter outlining specific details of the uniform and the supplier.

Length of the Course

Students completing this as part of their Year 10, VCAL or VCE program will complete the program over two years one half day per week. An 80 hours structured work placement is a requirement of the course. Full time NCAT students may complete the program in one year as part of the College's VCAL Pre-apprenticeship program.

Enrolment Process

Students enrolling as full time students must contact the college on Tel 9478 1333 for an interview. External students apply through their home school VET coordinator and complete the enrolment form at the NCAT information evening.

Please note

For details regarding Access, Equity, Privacy Policy, Refunds Policy, Student Conduct, Recognition Processes, Access to Records, Complaints & Appeals Policy etc. please see the VET & General Student Handbook available on the NCAT website.

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