62 MURRAY RD, PRESTON,
VICTORIA, 3072, AUSTRALIA

PHONE. 03 9478 1333
FAX. 03 9471 0929
NCAT@EDUCATION.VIC.GOV.AU

RTO NUMBER: 6736

22470VIC Certificate II in Engineering Studies

Nationally Recognised Training

This is a project-based, hand-on course delivered in a simulated workplace environment in a fully-equipped workshop. 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 deliver a general qualification including some elective units from fabrication, machining and engineering technical pathways. Units 3 & 4 offers scored assessment and incorporates units such as producing basic engineering sketches and drawings, handling engineering materials, performing computations (for the VCE stream only).

ACTIVITIES/TASKS

Projects made in Units 1 & 2 include vice soft jaws, sheet metal tool caddy, 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.

UNITS OF COMPETENCY

Units 1 & 2 (Core) (E) = Elective		**Units 3 & 4 (Core)**	
MEM13014A	Apply principles of Occupational Health and Safety in a work environment	MEMPE006A	Undertake a basic engineering project
MEM18002B	Use power tools/hand held operations		
MEM18001C	Use hand tools	**Units 3 & 4 (Electives)**	
VU22329	Report on a range of sectors in the manufacturing, engineering and related industries	VU22333*	Perform intermediate engineering computations (VCE compulsory)
VU22330	Select and interpret drawings and prepare three dimensional (3D) sketches and drawings	VU22334	Produce basic engineering components and products using fabrication and machining operations
VU22331	Perform basic machining processes	VU22335**	Perform metal machining operations (VCAL only)
VU22332	Apply basic fabrication techniques		
VU22339	Create engineering drawings using computer aided systems (E)	*VCE Compulsory **VCAL Only	

LENGTH OF COURSE

The course may be completed as part of the NCAT Pre-apprenticeship program over one year or as a year 10, VCAL or VCE student for half day per week over two years. External students enrol through their home school and attend for half day per week over two years.

ELIGIBILITY & PREREQUISITES

Year 9 - 10 basic language, literacy and numeracy levels are desired.
If you have any individual needs please contact us to discuss the options available to you.

ASSESSMENT

Students wanting a study score for the Engineering certificate can undertake scored assessment. Practical project work is assessed by observation and questioning, written tasks and tests are assessed using set criteria. Students are given a fair and adequate assessment process with 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.

Students are recommended to undertake a minimum of 80 hours of Structured Workplace Learning.

BENEFITS OF 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.

APPLICATION & ENROLMENT PROCESS

Students wanting to study full time at NCAT must arrange an interview phone 9478 1333.
External students must complete two forms.

1. An Application Form given from home school for approval at the home school level.
2. An NCAT RTO VET Enrolment Form available from the home school VET coordinator or at ncat.vic.edu.au or the Northern Melbourne VET Cluster website nmvc.vic.edu.au

PATHWAYS

This certificate provides pathways to engineering, manufacturing or other related industries. The manufacturing sector encompasses a broad range of industries including automotive components, advanced electronics and machinery, aerospace and aviation, defence, chemicals, and plastics, pharmaceuticals, fabricated metals, textiles, clothing and footwear (TCF) and food processing.

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, draftsperson and mechanical fitter and fitter and machinist. Fitters and machinists are in very high demand across Australia.

There are pathways into professional careers in the engineering industry such as a mechanical engineer, electrical engineer and surveying.

POLICIES

The NCAT VET and General Student Handbook on our website contains policies and procedures for access, equity, privacy, refunds, student conduct, recognition processes, access to records, complaints & appeals.

For safety reasons there is a NCAT uniform.

Parents will receive a letter outlining specific details of the uniform and the supplier.