Swinburne University of Technology
engineering

Course Details:

22632VIC Certificate II in Engineering Studies (Year 1)
22470VIC Certificate II in Engineering Studies (Year 2)

Course Aims
The Certificate II in Engineering Studies provides students with the practical skills and theoretical knowledge for employment as an apprentice in various engineering trades or as a pathway to higher education programs post-secondary school. Students will be required to plan projects, produce engineering sketches and drawings, and fabricate metal components and products. Each second year student will build their own drone as a take home project.

Course Delivery
Location and Times
Year 1: Swinburne University of Technology, 369 Stud Road, Wantirna. Wednesday 12:30pm-5:30pm
(plus a one-week block in Term 3 break)
Year 2: Swinburne University of Technology, 369 Stud Road, Wantirna. Wednesday 12:30pm-5:30pm
Mode of Delivery: Classroom/Workshop/Online
Duration: 2 years part time

On successful completion of this program the student will achieve:

Credit towards VCE, VCE VM, VPC and Intermediate VCAL

All VET in school programs contribute units towards VCE and VCE VM. To confirm the number of units and if the program has a scored assessment and therefore a study score, please refer to the following VCCA Get VET resource: VCE-VET-program-chart.pdf

Further information can be found on the VTAC website: www.vtac.edu.au and/or www.vcaa.vic.edu.au

Qualification: Be eligible for the award of **22470VIC Certificate II in Engineering Studies.** **(For Year 2 students in 2024)**
Be eligible for the award of **22632VIC Certificate II in Engineering.** **(For Year 1 students in 2024 who complete the two years of study.)**

Additional Requirements/ Information:

Name of RTO & Provider of Qualification:
Swinburne University of Technology
(TOID 3059)
RTO Student Information:
Please refer to http://www.swinburne.edu.au/policies-regulations/ and www.mullumvetcluster.com.au for student rights and responsibilities while on campus.

Clothing and Equipment:
- Steel cap work boots
- Full length cotton drill overalls or shirt and pants
- Exercise book
- Pencil case with pens, pencils and erasers

Excursions: NA
Work Placement: A work placement is not required.
Other: Current for 2024

Future Pathways and Opportunities:			
Complementary studies:	• Mathematical Methods	• Physics	
Pathways:	• Certificate III in Engineering – Mechanical, Fabrication, Technical, Production Systems or Electrical	• Certificate IV in Engineering • Diploma/Advanced Diploma of Engineering • Bachelor of Engineering	
Possible Future Career Opportunities:	• Automotive Engineer • Boiler Maker • Electrical Engineer	• Electrician • Fitter and Turner • Manufacturing Engineer	• Mechanical Engineer • Metallurgical Engineer

Units of Competency:

Year 1: Competencies covered in the first year **(2024)**

Unit Code	Unit Name	Nominal Hours	Core/Elective
VU23481	Apply occupational health and safety principles in an engineering environment	20	C
VU22475	Safely use hand tools and hand-held power tools for general engineering applications	40	C
VU23477	Interpret and prepare basic two and three dimensional engineering drawings	30	C
VU23478	Perform basic machining processes	40	C
VU22332	Apply basic fabrication techniques	40	C
	Total nominal hours	**170**	

Year 2: Competencies covered in the second year **(2024)**

Unit Code	Unit Name	Assessment Plan	Nominal Hours	Core/Elective
MEMPE006A	Undertake a basic engineering project	Product 05	80	C
VU22333	Perform intermediate engineering computations	Work Performance 01	40	C
VU22338	Configure and program a basic robotic system	Work Performance 02	60	C
	Total nominal hours		**180**	