

Course Code & Name:		Certificate II in Engineering Studies 22470VIC Current for 2020
Course Aims:		VET in Schools Engineering Studies is ideal for students who want a hands-on practical applied learning study that contributes to VCE or VCAL. Certificate II provides students with practical skills and theoretical knowledge to undertake an apprenticeship in the engineering fabrication trade covering areas including welding, machine processing, fabrication techniques, using power tools and computer software programs for engineering related work activities. Students are required to plan projects, produce engineering sketches and drawings, and fabricate metal components and products
Course Delivery	Location and Times:	Year 1: Ringwood Training, 3 Hill Street, Ringwood East Wednesday 12:00pm – 4:30pm Year 2: Ringwood Training, 3 Hill Street, Ringwood East Wednesday 2:30pm-7:00pm
	Mode of Delivery:	Classroom/workshop based
	Duration:	2 years' part time

On successful completion of this program the student will achieve:

Credit towards VCE/VCAL	VCE:	VCE: Students who complete the VCE VET Engineering program will be eligible for up to four units of credit towards their VCE, two units at Units 1&2 level and a Units 3&4 sequence. ATAR Contribution: Students wishing to receive an ATAR contribution for the Units 3&4 sequence of Program 2: Certificate II in Engineering Studies must undertake scored assessment for the purpose of achieving a study score. This study score can contribute directly to the ATAR, either as one of the student's best four studies (the primary four) or as a fifth or sixth study. Note: Where a student elects not to receive a study score for VCE VET Engineering Studies, no contribution to the ATAR will be available.
	VCAL:	This program contributes to the Industry Specific Skills Strand and Work Related Skills Strand of VCAL.
	Qualification:	A Victorian recognised qualification: 22470VIC - Certificate II in Engineering Studies (as of 2019)

Additional Requirements/ Information:	Name of RTO & Provider of Qualification:	Ringwood SC (Ringwood Training) RTO: 22475
	RTO Student Information:	Please refer to http://www.rt.vic.edu.au/student-handbook and www.mullumvetcluster.com.au for student rights and responsibilities whilst on campus.
	OHS / Personal Protective Equipment:	Students must wear full-length cotton drill overalls and steel-capped leather work boots. No bib and brace overalls. Clear lens safety glasses will be supplied.
	Excursions:	N/A
	Work Placement:	A work placement is not required but is strongly recommended.
	Other:	Please note this course is subject to change.

Units of Competency:

Year 1: Competencies covered in the first year:

Unit Code	Unit Name	Nominal Hours	Compulsory / Elective
MEM13014A	Apply principles of OHS in work environment	10	C
MEM18001C	Use hand tools	20	C
VU22329	Report on a range of sectors in the manufacturing, engineering and related industries	30	C
VU22330	Select and interpret drawings and prepare three dimensional (3D) sketches & drawings	20	C
VU22331	Perform basic machining processes	40	C
VU22332	Apply basic fabrication techniques	40	C
MEM18002B	Use power tools/hand held operations	20	E
VU22336	Apply metal fabrication operations	60	E
Total nominal hours		240	

Year 2: Competencies covered in the second year:

Unit Code	Unit Name	Assessment Plan	Nominal Hours	Compulsory / Elective
MEMPE006A	Undertake a basic engineering project	TBA	80	C
VU22333	Perform intermediate engineering computations	TBA	40	E
VU22337	Perform basic welding and thermal cutting processes to fabricate engineering structures	TBA	60	E
Total nominal hours			180	

FUTURE PATHWAYS & OPPORTUNITIES	Complementary studies:	<ul style="list-style-type: none"> STEM – Science, Technology, Engineering, and Mathematics 	
	Pathways:	<ul style="list-style-type: none"> Certificate III in Engineering Fabrication Trade Certificate IV in Engineering Engineering apprenticeship – Mechanical, Fabrication, Automotive or Electrical 	
	Possible Future Career Opportunities:	<ul style="list-style-type: none"> Boiler Maker Electrical Engineering Fabricator Sheet Metal Worker 	<ul style="list-style-type: none"> Fitter and Turner Manufacturing Engineer Mechanical Engineer Metallurgical Engineer

