



MEM20422 CERTIFICATE II IN ENGINEERING PATHWAYS



OVERVIEW

Skills Generation MEM20422 Certificate II in Engineering Pathways is a forward-thinking VET Qualification that aims to educate students about emerging and increasingly prominent technologies. Skills Generation focuses on the future, and ensuring students are prepared for the changing landscape of work in the engineering and manufacturing fields.

Our MEM20422 qualification first lays the groundwork, introducing students to the foundations of engineering and manufacturing – including the correct use of hand and power tools, appropriate understanding of PPE and proper welding techniques. Students then apply this foundational knowledge in a variety of engaging and practical projects including the construction of robots or drones.

COURSE DELIVERY

Delivery of MEM20422 is face-to-face at the school and will be included as part of the student's timetable. The course is designed to complete the Certificate II in Engineering Pathways in Years 10, 11 or 12. Students who complete the course in Years 10 or 11 have the opportunity to transition to a follow-on qualification, either ICT20120 Certificate II in Applied Digital Technologies following on from the Build a Robot Project, or AVI30419 Certificate III in Aviation (Remote Pilot), following on from the Build a Drone Project.

ASSESSMENT

The course contains both theory and practical assessments on a unit-by-unit basis. Theory assessments are open book, comprising multiple choice and short answer questions. The program will allow students:

- to gain foundational knowledge and experience in a broad range of engineering disciplines
- to apply acquired skills in the construction of individual robots or drones
- to obtain insights into the exciting and growing employment pathways in the trade and engineering industries

COURSE UNITS

MEM13015	Work safely and effectively in manufacturing and engineering
MEMPE005	Develop a career plan for the engineering and manufacturing industries
MEMPE006	Undertake a basic engineering project
MSMENV272	Participate in environmentally sustainable work practices
MEM16006	Organise and communicate information (<i>Pre-Requisite: MEM13015</i>)
MEM16008	Interact with computing technology (<i>Pre-Requisite: MEM13015 and MEM16006</i>)
MEM11011	Undertake manual handling (<i>Pre-Requisite: MEM13015 and MEM16006</i>)
MEM18001	Use hand tools (<i>Pre-Requisite: MEM13015, MEM11011 and MEM16006</i>)
MEM18002	Use power tools/hand held operations (<i>Pre-Requisite: MEM13015, MEM11011 and MEM16006</i>)
MEMPE001	Use engineering workshop machines
MEMPE002	Use electric welding machines
MSMSUP106	Work in a team

COURSE FEES

MEM20422 Certificate II in Engineering Pathways

VETIS Funded Student	FREE
Fee For Service Student	\$4,660.00
Fee For Service Student (Discounted Rate) *	\$1,200.00

* to be eligible for discounted rate, Fee For Service students must be enrolled in a class of 15 or more VETIS funded students in this qualification



COURSE FEES - OPTIONAL FOLLOW-ON COURSES

ICT20120 CERTIFICATE II IN APPLIED DIGITAL TECHNOLOGIES

Follow-on Student (continuing on from Skills Generation MEM20422)	FREE
Fee For Service Student	\$850.00

AVI30419 CERTIFICATE III IN AVIATION (REMOTE PILOT)

VETiS Funded Student	FREE
Follow-on Student (continuing on from Skills Generation MEM20422)	FREE
Fee For Service Student	\$3,330.00
Fee For Service Student (Discounted Rate) ^	\$1,200.00

CASA RePL and AROC

Fees for students who choose to undertake the optional CASA RePL component with or without the optional AROC component - includes training, licencing and application fees for the CASA Remote Pilot Licence (RePL) and Aeronautical Radio Operator Certificate (*NB: students must be 17+ years to obtain the AROC*):

VETiS Funded Student (while enrolled in Skills Generation AVI30419)	FREE
Follow on Student (continuing on from Skills Generation MEM20422)	\$600.00
Fee For Service Student	\$600.00

^ to be eligible for the discounted rate, Fee For Service students must be enrolled in a class of 15 or more VETiS funded students in the AVI30419 qualification or 15 or more students previously VETiS funded for the MEM20422 qualification

VETiS ELIGIBILITY REQUIREMENTS

MEM20422 Certificate II in Engineering Pathways is funded by the Queensland Department of Youth Justice, Education, Small Business and Training (DYJESBT). Students may be eligible to utilise their VETiS funding if they meet the following criteria:

- Students are either Australian or New Zealand Citizens or Permanent Residents
- Students are in either Year 10, 11 or 12 when they participate in the course
- Students have not previously utilised their VETiS funding

Please speak with the School's VET Coordinator to check VETiS eligibility.

*QCE CONSIDERATIONS

Students may be eligible for up to 8 QCE Credits as nominated by the QCAA on successful completion of both MEM20422 and ICT20120. Students may be eligible for up to 10 QCE Credits as nominated by the QCAA on successful completion of both MEM20422 and AVI30419. Additionally, on successful completion of AVI30419 Certificate III in Aviation (Remote Pilot), students will achieve an automatic [#]QTAC Tertiary Admission Selection Rank of 68.

MEM20422 Certificate II in Engineering Pathways:	up to 4 QCE Credits
ICT20120 Certificate II in Applied Digital Technologies:	up to 4 QCE Credits
AVI30419 Certificate III in Aviation (Remote Pilot):	up to 6 QCE Credits

** Please check QCE credit eligibility with QCAA as individual student's differing circumstances may impact the number of QCE credits they can earn.*

Tertiary Admission Selection Ranks are adjusted annually and are subject to change.

Who do I Contact?

Narelle Newhouse

P: 0406 262 771

E: narellen@skillsgen.com.au

Andrew Bradshaw

P: 0432 663 456

E: andrew@skillsgen.com.au

 /skillsgen