



MEM10105 Certificate I in Engineering

Entry Requirements:

Students must complete a VET Enrolment Form and supply their USI before the commencement of any training and assessment.

Foundation skills may be accessed using the LLN Robot to determine the language, literacy and numeracy suitability of a student for this course.

Course: Metal and Engineering (240 indicative hours) 4 Preliminary and/or HSC units in total

Board Developed Course Category B status for Australian Tertiary Admission Rank (ATAR)

Students must complete a minimum of 70 hours of work placement to meet the requirements of the HSC.

Course Description

This curriculum framework course is accredited for the HSC and provides students with the opportunity to obtain nationally recognised vocational qualifications. This is known as dual accreditation. Students will be able to gain skills in safe work practices, routine work activities, working with others, quality procedures and systems, the use of hand and power tools, technical drawing and engineering measurement. Occupations in the manufacturing, engineering and related industries include fitter, toolmaker, structural steel welder, engineering draftsman, engineer (automotive, fabrications, production, plastics, marine, mechanical) boat builder/repairer and mechanical, production or marine engineer.

Core Units of Competency

- MEM13014A Apply principles of occupational health and safety in the work environment
- MEM16007A Work with others in a manufacturing, engineering or related environment
- MEM14004A Plan to undertake a routine task
- MEM15024A Apply quality procedures

Elective Units of Competency

- MEM15002A Apply quality systems
- MEM12023A Perform engineering measurements
- MEM12024A Perform computations
- MEM18001C Use hand tools
- MEM18002B Use power tools/hand held operations
- MEM05005B Carry out mechanical cutting
- MEM05012C Perform routine manual metal arc welding
- MEM07032B Use workshop machines for basic operations
- MEM11011B Undertake manual handling
- MEM05007C Perform manual heating and thermal cutting

<p>This course also requires the completion of the manufacturing, engineering and related services industries induction and MEM09002B Interpret technical drawing to meet the requirements of the NSW Education Standards Authority (NESA) HSC. Students may apply for recognition of prior learning or be granted credit transfer provided suitable evidence is submitted. Support services may be available to meet needs of individual students.</p>
<p>Qualifications Students who are assessed as competent in the above units of competency will be eligible for a MEM10105 Certificate I in Engineering. Students who do not achieve competency in all the above units and achieve at least one unit of competency will be eligible for a Statement of Attainment towards MEM10105 Certificate I in Engineering.</p>
<p>Competency-based Assessment: Students in this course work to develop the competencies, skills and knowledge described by each unit of competency above. To be assessed as competent a student must demonstrate to a qualified assessor that they can effectively carry out tasks to industry standards. Students will be progressively assessed as 'competent' or 'not yet competent' in individual units of competency. N Determinations: Where a student has not met NESA course completion criteria, including meeting the mandatory work placement requirement, they will receive an "N" determination (course not satisfactorily completed). The course will not count towards the HSC although units of competency achieved will count towards an Australian Qualifications Framework (AQF) qualification. External Assessment (optional HSC examination): Students completing this course are eligible to sit a written HSC examination which may be used in the calculation of an ATAR. The examination is independent of the competency-based assessment undertaken during the course and has no impact on the eligibility of a student to receive an AQF VET qualification. Complaint or Appeals: Students may lodge a complaint or appeal regarding assessment decisions through their VET trainer.</p>
<p>Resources costs: Discuss payment options with your trainer Refund Arrangements: on a pro-rata basis</p>
<p>Delivery Arrangements: At school</p>
<p>Exclusions: Nil</p>
<p>A school-based traineeship is available in this course, for more information: http://www.sbatinnsw.info/ For more information on possible outcomes please visit the NESA website: http://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/stage-6-learning-areas/vet</p>