

CERTIFICATE II IN ENGINEERING PATHWAYS



Vocational Education & Training CODE: VEP

QUALIFICATION: MEM20422 CERTIFICATE II IN ENGINEERING PATHWAYS

COURSE OVERVIEW

<http://training.gov.au> - Please refer to the training.gov.au website for specific information about the qualification.

The Certificate II in Engineering Pathways is intended for students interested in exposure to an engineering or related working environment with a view to entering into employment in that area. Delivered on site at Meridan State College, this qualification will equip graduates with knowledge and skills which will enhance their prospects of employment in an engineering or related working environment.

The learning program develops trade-like skills but does not attempt to develop trade-level skills. As an example, the outcome level of welding skills from this qualification is not about learning trade-level welding theory and practice; it is about being introduced to welding, how it can be used to join metal and having the opportunity to weld some metal together. Similarly with machining, the outcome is to have something produced on a lathe etc., not the theory and practice of machining. The focus is on using engineering tools and equipment to produce or modify objects. This needs to be done in a safe manner for each learner and those around them.

Students will participate in the manufacture of a range of practical tasks under close supervision, and complete some written tasks. Student support services are available in accordance with the VET Subject Handbook.

DURATION & FUNDING

This course has been designed to be delivered and assessed within a 2 year period. Please refer to the College website for subject costs.

COURSE UNITS

To attain a Certificate II in Engineering Pathways, 12 units must be achieved. Note, electives offered are subject to change to align with current industry practices.

CORE:		ELECTIVES MAY INCLUDE:	
MEM13015	Work safely and effectively in manufacturing and engineering	MEM11011*	Undertake manual handling
MEMPE005	Develop a career plan for the engineering and manufacturing industries	MEM16006*	Organise and communicate information
MEMPE006	Undertake a basic engineering project	MEM16008*	Interact with computing technology
MSAENV272	Participate in environmentally sustainable work practices	MEM18001*	Use hand tools
		MEM18002*	Use power tools/hand held operations
		MEMPE001	Use engineering workshop machines
		MEMPE002	Use electric welding machines
		MEMPE007	Pull apart and re-assemble engineering mechanisms

Prerequisite units of competency - An asterisk () against a unit of competency code in the list above indicates there is a prerequisite requirement that must be met. Prerequisite unit(s) of competency must be assessed before assessment of any unit of competency with an asterisk.

ASSESSMENT TECHNIQUES

The emphasis in this subject is on completing tasks in a competent manner. Assessment will be delivered using a variety of techniques: portfolio work; knowledge assessment; practical tasks and teacher observation.

Assessment is competency based. Students must achieve competency at every task in order to be issued with a full certificate at the completion of this course.

SPECIAL REQUIREMENTS

- No student may enrol in this course without a valid USI.
- Due to the technological aspect of this course, students are encouraged to participate in the College's BYOx programme.
- All classes in Engineering Pathways will require the frequent use of potentially dangerous tools, machines and processes. It is expected that students will develop appropriate attitudes and behaviours for their continued participation in this course.
- Students may be required to attend industry site visits. Students may participate in an excursion to various Engineering industry sites to gain meaningful involvement in industry and to expose the learners to realistic workplace conditions and employer expectations. Students are also expected to participate in Industry or work environment scenarios.
- Steel cap boots, protective aprons, and safety glasses must be worn at all times.

CAREER OPPORTUNITIES & PATHWAYS

Employment outcomes and other specific manufacturing qualifications available at <http://training.gov.au> . Possible career paths include Certificate II in Engineering or higher, Engineering Trades, Boilermaker.

Disclaimer:

"The College must have certain teachers and equipment to run this course. If the school loses access to these resources, the school will attempt to provide students with alternative opportunities to complete the course and the related qualifications. The school retains the right to cancel the vocational component of the course if it is unable to meet requirements."