

CERTIFICATE II IN ENGINEERING STUDIES

AQF CODE N/A | COURSE CODE 22632VIC | COURSE TYPE Qualification | RTO 3097

Overview

Looking for a career in Engineering, Fabrication or Welding? This course has been developed to provide a broad range of engineering and manufacturing tasks for entry-level employment prospects for apprenticeships, traineeships or general employment in an engineering related workplace. Students will gain skills and knowledge for entry into an apprenticeship, traineeship or general work in various mechanical engineering, fabrication and manufacturing careers – including general machining, engineering drafting, fabrication and welding. It's a great way of getting your foot in the door, as it shows not only understanding and skills, but a dedication to your chosen trade area.

This program is designed to complete in 2 stages: **Stage 1** is an 8-week program, provides a hands-on introduction to Manual Metal Arc (MMAW) & Gas Metal Arc (GMAW) welding and thermal cutting processes, including occupational health and safety, safe use of hand and power tools and fabrication techniques. **Stage 2** (Optional*) to complete the full Certificate II qualification students will gain a further broad range of engineering skills and knowledge, including basic machining, an engineering project, interpret drawings, gaining knowledge of the engineering sector and employment.

Identified 'work ready' students undertaking the Certificate II in Engineering Studies have the option to undertake practical placement, providing opportunity in obtaining 'real life' experience and building connections with local employers as part of their course.

Duration

Initial Stage Introduction: 8-week introduction to Engineering. **Full completion of Certificate II in Engineering Studies:** 4 months

Requirements

Applicants must be at least 16 years of age to enrol. Applicants must supply own: *Safety boots *Safety glasses *Appropriate flame-resistant clothing for workshop activities (not loose clothing as this is an OH&S hazard) *Personal protective equipment will be required depending on units of study, for example, earplugs or earmuffs are required when using machinery. *Calculator *Writing materials (pen, highlighter, etc.)

Field Placement

Optional practical placement is available for 'work ready' students once entry level knowledge and skills are developed, providing opportunity in obtaining 'real life' experience and building connections with local employers as part of their course.

Assessment

The assessments will enable students to demonstrate the underpinning knowledge, skills and attributes required to meet the course outcomes. You will be assessed through a combination of practical work skills and theory testing, through observation, class exercises, participation, written assignments and tests.

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Learning Outcomes

This course can be tailored to your desired engineering stream, therefore learning outcomes are varied. Some may include: Manual Metal Arc (MMAW) & Gas Metal Arc (GMAW) welding Machining Tool and equipment safety and operation Using computer-aided design and drafting Applying mathematics to engineering Basic fabrication Perform computations and produce engineering graphics Cutting, grinding, and turning operations

Compulsory Units

MEMPE006 - Undertake a basic engineering project
VU23475 - Safely use hand tools and hand held power tools for general engineering applications
VU23476 - Report on the sectors and employment in the manufacturing, engineering and related industries
VU23477 - Interpret and prepare basic two and three dimensional engineering drawings
VU23478 - Perform basic machining processes
VU23479 - Apply basic fabrication techniques
VU23480 - Perform intermediate engineering computations
VU23481 - Apply occupational health and safety principles in an engineering environment
VU23485 - Perform basic welding and thermal cutting processes

Certification

By successfully completing this course you will receive a nationally recognised AQF Qualification.

Careers

Training and pathways in the engineering, manufacturing or other related industries. Apprenticeships and Traineeships can lead into a range of careers in design, manufacture, installation and repair of a wide range of products.

If you become a qualified trades person in the future, occupations may include:

Boilermaker Toolmaker/mechanical technician Draftsperson Mechanical fitter. This qualification also provides a pathway into careers in the engineering industry such as a mechanical, fabrication or electrical engineer

Fees

2025	Tuition	Materials	Total
Government Funded	\$925	\$170	\$1,095
Concession	\$185	\$170	\$355
Full Tuition	\$3,700	\$170	\$3,870

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Pathways

This course can lead to:

Apprenticeship in MEM30219 Certificate III in Engineering - Mechanical Trade Apprenticeship in MEM31922 Certificate III in Engineering - Fabrication trade Traineeship in MEM40422 Certificate IV in Engineering Drafting Traineeship in MEM20219 Certificate II in Engineering - Production Technology