



MEM40105 Certificate IV in Engineering

National ID: MEM40105 | State ID: W245

About this course

Take your engineering career to the next level.

The Certificate IV in Engineering specifies the competencies required for employment as a Higher Engineering Tradesperson or a Special Class Engineering Tradesperson - Level II in mechanical, electrical/electronic or fabrication trade disciplines. The job role involves application of additional skills in the learner's trade or cross skills from other trades.

Participants will learn about the design, assembly, manufacture, installation, modification, testing, fault finding, commissioning, maintenance and service of equipment and machinery, the fabrication of structures and assemblies, manufacture of sheet metal work, as well as use of relevant machinery, equipment and joining techniques.

Machinery and equipment can include fluid power systems, stationary and mobile equipment, instruments, refrigeration, and the use of computer controlled machine tools.

Overview

Available all year, 2019

Broome Campus - Qualification details



Duration: **1 Year**



When: **Available all year**



How: **Face-to-face block delivery**
Face-to-face classroom delivery
Mixed mode
Part-time

Units

This is a suggested study plan. North Regional TAFE offers a variety of alternative units, and packaging rules apply to these selections. Your unit options will be discussed with you prior to enrolment.

Students must successfully complete 12 core and elective units totalling 109 points to be awarded this qualification.

Core

National ID	Unit Title
MEM12023A	Perform engineering measurements
MEM12024A	Perform computations
MEM13014A	Apply principles of occupational health and safety in the work environment
MEM14004A	Plan to undertake a routine task
MEM14005A	Plan a complete activity
MEM15002A	Apply quality systems
MEM15024A	Apply quality procedures
MEM16006A	Organise and communicate information
MEM16007A	Work with others in a manufacturing, engineering or related environment
MEM16008A	Interact with computing technology
MEM17003A	Assist in the provision of on the job training
MSAENV272B	Participate in environmentally sustainable work practices

Elective

National ID	Unit Title
MEM05001B	Perform manual soldering/desoldering - electrical/electronic components
MEM09002B	Interpret technical drawing
MEM12002B	Perform electrical/electronic measurement
MEM12004B	Perform precision electrical/electronic measurement
MEM18001C	Use hand tools
MEM18002B	Use power tools/hand held operations
MEM18054B	Fault find, test and calibrate instrumentation systems and equipment
MEM18055B	Dismantle, replace and assemble engineering components
MEM18057B	Maintain/service analog/digital electronic equipment
MEM18060B	Maintain, repair control instrumentation - single and multiple loop control systems
MEM18062B	Install, maintain and calibrate instrumentation sensors, transmitters and final control elements
MEM18064B	Maintain instrumentation system components
MEM18069B	Maintain, repair instrumentation process control analysers

Job opportunities

- Technical supervisor within participant's trade specialisation

Fees and charges

North Regional TAFE's **indicative fees for 2019** are available [here](#). These fees are indicative for local students enrolling full-time in Government-funded courses. Fees are calculated based on individual circumstances at the time of enrolment. Concessions for eligible certificate I - IV level courses, annual fee caps and other charges may apply.

For more information, please click [here](#).



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VET Student Loans

VET Student Loans is an income contingent loan support available to eligible students studying a diploma level or above qualification. For more information, please click [here](#).

International student fees

Fees, charges, available locations, applications, and enrolment procedures for international students are different to those applicable to local students. Please visit the [TAFE International WA website](#) to confirm available courses and fees. Tuition fees are paid through TIWA.

Please note, fees are subject to change.



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