



MEM30205 Certificate III in Engineering - Mechanical Trade

National ID: MEM30205 | State ID: W237

About this course

Get qualified as a plant mechanic.

The Certificate III in Engineering - Mechanical Trade must be completed as part of an apprenticeship, and upon successful completion, allows participants to work as a qualified plant mechanic. Apprentices will learn through a combination of on-the-job employment and block training at North Regional TAFE.

Throughout this course, participants will be guided through the design, assembly, manufacture, installation, modification, testing, fault finding, commissioning, maintenance and service of all mechanical equipment, machinery, fluid power systems, stationary and mobile equipment, instruments, refrigeration, and the use of computer controlled machine tools.

Participants will learn how to perform some of the following tasks:

- Engineering measurements and computations
- Manual heating and thermal cutting
- Routine manual metal arc welding
- Routine gas metal arc welding
- Maintenance of machines and equipment
- Fault diagnosis

- Manual handling
- Handle a range of tools
- Dismantle, replace and assembly of engineering components

Overview

Available all year, 2019

Broome Campus - Qualification details



Duration: **3 Years**



When: **Available all year**



How: **Face-to-face block delivery**
Face-to-face classroom delivery
Face-to-face classroom/campus delivery
Full-time
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 73 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

National ID	Unit Title
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
MEM05007C	Perform manual heating and thermal cutting
MEM05012C	Perform routine manual metal arc welding
MEM05050B	Perform routine gas metal arc welding
MEM06007B	Perform basic incidental heat/quenching, tempering and annealing
MEM07001B	Perform operational maintenance of machines/equipment
MEM07005C	Perform general machining
MEM07012B	Perform complex grinding operations
MEM07015B	Set computer controlled machines/processes
MEM07025B	Perform advanced machine/process operation
MEM09002B	Interpret technical drawing

National ID	Unit Title
MEM11011B	Undertake manual handling
MEM12001B	Use comparison and basic measuring devices
MEM12006C	Mark off/out (general engineering)
MEM18001C	Use hand tools
MEM18003C	Use tools for precision work
MEM18005B	Perform fault diagnosis, installation and removal of bearings
MEM18006C	Repair and fit engineering components
MEM18012B	Perform installation and removal of mechanical seals
MEM18013B	Perform gland packing
MEM18018C	Maintain pneumatic system components
MEM18020B	Maintain hydraulic system components
MEM18055B	Dismantle, replace and assemble engineering components

Study pathway



[Certificate IV in Engineering](#)

Job opportunities



[Plant mechanic](#)

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](#).

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.