



# MEM30305 Certificate III in Engineering - Fabrication Trade

National ID: MEM30305 | State ID: W238

## About this course

### Get qualified as a boilermaker or welder.

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

Throughout this course, participants will be guided through metal fabrication, forging, founding, structural steel erection, electroplating, metal spinning, metal polishing, sheet metal work, welding and the use of related computer controlled equipment.

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

- Engineering measurements and computations
- Mechanical cutting
- Manual heating and thermal cutting
- Fabrication, forming, shaping and assembling of components
- Manual metal arc welding
- Gas metal arc and gas tungsten arc welding
- Technical drawing interpretation
- Use of handheld and power tools

## 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**  
**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
MEM14005A	Plan a complete activity
MEM15002A	Apply quality systems

National ID	Unit Title
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
MEM05005B	Carry out mechanical cutting
MEM05007C	Perform manual heating and thermal cutting
MEM05008C	Perform advanced manual thermal cutting, gouging and shaping
MEM05010C	Apply fabrication, forming and shaping techniques
MEM05011D	Assemble fabricated components
MEM05012C	Perform routine manual metal arc welding
MEM05014C	Monitor quality of production welding/fabrications
MEM05015D	Weld using manual metal arc welding process
MEM05017D	Weld using gas metal arc welding process
MEM05019D	Weld using gas tungsten arc welding process
MEM05036C	Repair/replace/modify fabrications
MEM05037C	Perform geometric development

National ID	Unit Title
MEM05047B	Weld using flux core arc welding process
MEM05049B	Perform routine gas tungsten arc welding
MEM05050B	Perform routine gas metal arc welding
MEM05051A	Select welding processes
MEM05052A	Apply safe welding practices
MEM09002B	Interpret technical drawing
MEM12007D	Mark off/out structural fabrications and shapes
MEM18001C	Use hand tools
MEM18002B	Use power tools/hand held operations

## Study pathway



[Certificate IV in Engineering](#)

## Job opportunities



[Boilermaker | Welder](#)

## 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



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*We're working for  
Western Australia.*

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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