



# MEM30305 Certificate III in Engineering - Fabrication Trade (Heavy/Welding YH)

National ID: MEM30305 | State ID: WT77

## About this course

### Are you looking for a career making and fixing all things mechanical?

When you complete the Certificate III in Engineering - Fabrication Trade (Heavy/Welding YH) you'll be looking at a trades career as a **boilermaker**, **welder**, or **fabricator** in industries such as mining or construction. Develop practical knowledge and gain hands-on skills in fabrication and welding, using industry standard technologies and techniques.

### Gain these skills:

- create and work with metal fabrications
- use workshop machines
- use hand and power tools
- metal, gas, flux core, tungsten
- arc welding
- thermal cutting
- measuring
- technical drawing
- workplace health and safety

### Learn in specialised facilities

Our campuses provides students with a hands-on learning environment that feature industry-standard equipment, advanced technology and specialised workshop areas.

**LOWER FEES  
LOCAL SKILLS**

This qualification is directly aligned with priority industry areas where the jobs are today, and into the future. As part of the state government **Lower fees, local skills** initiative, from 1 January 2020 through to 31 December 2021 you'll only pay half the course fees, capped at \$1,200 or \$400 if you're aged 15—24 or eligible for a concession. [Find out](#)

[more.](#)

## Overview

*This course will be offered with a blended, flexible delivery model to enable social distancing measures to be undertaken during the COVID-19 pandemic. This approach may include a mix of online and classroom based delivery, as well as practical and work experience placements. Lecturers will provide specific instructions to their student groups on how training will be undertaken.*

## All year round, 2020

### Thornlie - Classroom-Apprenticeship



Duration: **36 Months**



When: **All year round**



How: **Part Time**

## Units

### Core

National ID	Unit Title
MEM12023A	Perform engineering measurements
MEM12024A	Perform computations

National ID	Unit Title
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
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
MEM05015D	Weld using manual metal arc welding process
MEM05016C	Perform advanced welding using manual metal arc welding process

National ID	Unit Title
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
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

## Entrance requirements

School Leaver	Non-School Leaver	AQF
OLNA or NAPLAN 9 Band 8	C Grades in Year 10 English and Maths or equivalent	Certificate I or Certificate II

This course is available as an apprenticeship.

### Entrance requirements for apprenticeships

You must be employed in a training contract by an appropriate organisation to study an apprenticeship or

traineeship.

An apprenticeship involves full time work with an employer who provides an opportunity to learn all aspects of a trade. This is a structured program for a fixed period of time and while you learn on the job, you also attend off the job training at SM TAFE.

Some of the benefits of an Apprenticeship are that you can:

- Earn a wage while you train
- Learn on the job skills combined with off the job training
- Receive a nationally recognised qualification on successful completion
- Start a valuable step towards a rewarding career path

## Study pathway



[Certificate II in Engineering \(Heavy Fabrication Pre-Apprenticeship\)](#)



[Certificate III in Engineering - Fabrication Trade \(Heavy/Welding YH\)](#)



[Certificate IV in Engineering \(Welding\)](#)

## Job opportunities



[Boilermaker | Heavy Fabricator Welder | Heavy Welder](#)

*Please note this list should be used as a guide only as job titles and qualification requirements may vary between organisations.*

SM TAFE actively promotes the employment availability of course graduates to key industry partners and organisations. We also seek expressions of interest from organisations for the placement of our students into work experience. We endeavour to assist students into a career pathway, but please be aware that neither employment nor work experience placement is guaranteed by us.

To access free career planning and job search assistance, visit the [Jobs and Skills Centres](#) page.

## Fees and charges

### Indicative fees and charges

[2020 general admission fees list](#)

[2020 apprenticeship/traineeship fees list](#)

Fees and charges published on our website are indicative. Your fees will depend on your eligibility for government funding or a concession rate, and the units you choose to study or seek to be recognised under Recognition of Prior Learning (RPL). Our Indicative fees lists show fees that are:

- Based on the full possible study plan of units, including the recommended electives
- Based on full time study in 2020
- Charged at the government funded rate for over 18 years of age students
- Based on unit electives designed to meet localised industry demand for skills
- Made up of course fees and resource fees, or RPL fees. Course fees are the cost of your tuition, while resource fees pay for consumables provided to you to aid your study (such as printing and paper). You may also be required to purchase text books or equipment that are not part of our tuition or resource fees.

Fees may vary between students and between educational providers. Other charges may apply.

Visit our [Fees and payment options](#) page for more information.

Call 1800 001 001 to get a more accurate fee indication based on your eligibility and study plan before applying.

### VET Student Loans

Selected courses are VET Student Loan eligible courses.

A VET Student Loan creates a debt that must be repaid to the Commonwealth and is only available to students who are eligible.

To find out if you are eligible or to see the list of eligible courses visit our [Student Loans](#) page.

### International students

Selected courses are available to International students for full time study only.

Fees, charges, available locations, applications and enrolment procedures for International students are different to those for students who have Australian permanent residency.

For more information or to find a course visit the [TAFE International WA](#) website.

## **Apprenticeships and traineeships**

Fees for apprenticeships and traineeships are charged at a rate per nominal hour of study.

This means that your fees will vary depending on the units you study as part of your training plan.

Apprentices and trainees are liable to pay for their own fees but some industrial agreements (awards) dictate that employers are required to reimburse their apprentice upon receipt of satisfactory progress. An employer may also opt to pay on behalf of the apprentice or trainee.

For more information visit our [Apprenticeships and traineeships](#) page.

## **Recognition of Prior Learning**

Recognition of Prior Learning (RPL) enrolments are charged at \$3.25 per nominal hour of study.

No concession fees apply to RPL enrolments. Refer to the institutional or apprenticeship/traineeship fee lists for an indicative RPL course fee.

**Please note, fees are subject to change.**