



# MEM40105 Certificate IV in Engineering (Skills Set - HVAC Commissioning)

National ID: MEM40105 | State ID: WT56

## About this course

### Are you looking to turn your air-conditioning career up a notch?

Take the next step and learn how to install and commission HVAC.

The Certificate IV HVAC Commissioning will prepare you for work with today's computer controlled HVAC systems. Subjects covered will include: AHU's, VAV's, Chillers, Cooling Towers and ancillary equipment. Learn your way around a BMS system. You will, air balance, water balance as well as; fully install commission and optimise a VAV-AHU (using the BMS).

Learn to commission in hands-on sessions with experienced commissioning technicians. This course is delivered 90% via online and 10% on campus (evening). The theory part of the course will be online via pre-recorded videos and live online sessions. All practicals will be on-campus. Flexibility will be our guiding principle - the online component is self-paced; on-campus sessions will run throughout the Semester at your request. Come to TAFE when it suits you!

When you have completed the Certificate IV - you only need to complete 5 Units (some maths and some reporting) and you qualify for an Advanced Trade Diploma.

For those already working in industry, you may be eligible for Recognition of Prior Learning. To find out if you're eligible, visit the [RPL page](#).

This course at SM TAFE is a post trade skills add-on and requires Certificate III in Air Conditioning (Metals - MEM) and Restricted Electrical Licence (Mechanics) for entry.

### Cluster 1

- MEM10008B - UNDERTAKE COMMISSIONING PROCEDURES FOR PLANT AND/OR EQUIPMENT
- MEM18092B - MAINTAIN AND REPAIR COMMERCIAL AND/OR INDUSTRIAL REFRIGERATION AND/OR AIR CONDITIONING CONTROLS
- MEM18093B - MAINTAIN AND REPAIR INTEGRATED INDUSTRIAL REFRIGERATION AND/OR LARGE AIR HANDLING SYSTEM CONTROLS
- MEM18089B - MAINTAIN AND REPAIR CENTRAL AIR HANDLING SYSTEMS

### Cluster 2

- MEM18095A - MAINTAIN AND REPAIR COOLING TOWERS/EVAPORATIVE CONDENSERS AND ASSOCIATED EQUIPMENT
- MEM16009A - RESEARCH AND ANALYSE ENGINEERING INFORMATION
- MEM16003B - PROVIDE ADVANCED CUSTOMER SERVICE
- MEM16012A - INTERPRET TECHNICAL SPECIFICATIONS AND MANUALS

## Overview

### Semester 1, 2019

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#### Carlisle Campus - Part Time-Self Paced



When: **Semester 1, 2019**



How: **Part Time  
Self Paced**

## Units

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### Core

National ID	Unit Title
MEM12023A	Perform engineering measurements

National ID	Unit Title
MEM12024A	Perform computations
MEM13014A	Apply principles of occupational health and safety in the work environment
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
MEM05006C	Perform brazing and or silver soldering
MEM09002B	Interpret technical drawing
MEM10002B	Terminate and connect electrical wiring
MEM10003B	Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.
MEM10008B	Undertake commissioning procedures for plant and/or equipment
MEM12002B	Perform electrical/electronic measurement
MEM12004B	Perform precision electrical/electronic measurement
MEM14004A	Plan to undertake a routine task

National ID	Unit Title
MEM16003B	Provide advanced customer service
MEM16009A	Research and analyse engineering information
MEM16012A	Interpret technical specifications and manuals
MEM18001C	Use hand tools
MEM18002B	Use power tools/hand held operations
MEM18046B	Fault find/repair electrical equipment/components up to 1000 volts a.c./1500 volts d.c.
MEM18048B	Fault find and repair/rectify basic electrical circuits
MEM18049C	Disconnect/reconnect fixed wired equipment up to 1000 volts a.c./1500 volts d.c.
MEM18055B	Dismantle, replace and assemble engineering components
MEM18086B	Test, recover, evacuate and charge refrigeration systems
MEM18087B	Service and repair domestic and light commercial refrigeration and air conditioning equipment
MEM18088B	Maintain and repair commercial air conditioning systems and components
MEM18089B	Maintain and repair central air handling systems
MEM18092B	Maintain and repair commercial and/or industrial refrigeration and/or air conditioning controls
MEM18093B	Maintain and repair integrated industrial refrigeration and/or large air handling system controls
MEM18095A	Maintain and repair cooling towers/evaporative condensers and associated equipment

## Entrance requirements

School Leaver

Non-School Leaver

AQF

C Grades in Year 11 WACE General English, and OLNA; or NAPLAN 9 Band 8

C Grades in Year 11 English and Maths or equivalent

Certificate II or Certificate III

## Fees and charges

### Indicative fees and charges

[2019 general admission fees list](#)

[2019 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 2019
- 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.**