

# MEM30922 Manufacturing & Engineering

## Course Overview

**There are no entry requirements for this course.**

This qualification defines the skills and knowledge required of an Engineering Tradesperson – Fabrication within metal, engineering, manufacturing and associated industries.

## RTO Entry Requirements:

- ALO only accepts persons 18 years old and over for enrolment into the course.
- Be physically fit for potential lifting and bending requirements
- Have access to safety boots, gloves, Hi-Viz shirt and work wear – long sleeve shirt and trousers.
- ALO recommends that participants should have a basic understanding of English language skills to fully comprehend the course material.
- Completion of year 10 would be an advantage with achieved equivalent level of language, literacy and numeracy skills. Where this has not occurred, an interview will be conducted to ascertain if there is a potential level of assistance required to assist the student.
- Students will need to have access to a computer / tablet / smart phone etc with a reliable internet connection including current email and where applicable up-to-date software, including Microsoft Office and Adobe Acrobat Reader.
- Applicants are to have a Unique Student Identifier (USI) This is obtainable from usi.gov.au If a USI is not supplied and verified with usi.gov.au a certificate cannot be issued to the student.
- For courses undertaken in 12 months or less, students will be invoiced the full course fee (including any other essential fees associated with the course).

### Training Package Requirements:

There are no entry requirements for this course.

### Duration & Delivery:

This course is designed to equip you with the skills and knowledge needed to excel in your chosen field. The duration of the course is a minimum of 12 months up to 24 months to complete.

**Hybrid:** Learning and theory may be completed through eLearning (online) along with practical / training activities being completed in face-to-face workshops. (up to 24 months to complete)

**Face to face:** Theory and practical activities are completed in classroom / workshop attendances over 12 months. (up to 18 months to complete)

## Core Units

### MEM30922

Work safely and effectively in manufacturing and engineering

### MEM16006

Organise and communicate information

### MEM11011

Undertake manual handling.

### MSMENV272

Participate in environmentally sustainable work practices

### MEM18001

Use hand tools.

### MEM18002

Use power tools/hand held operations.

### MEM12024

Perform computations

### MEM12023

Perform engineering measurements.

### MEM09002

Interpret technical drawing.

### MEM14006

Plan work activities.

### MEM16008

Interact with computing technology.

### MEM17003

Assist in the provision of on-the-job train.

## Elective Units

- MEM05012** Perform routine manual metal arc welding
- MEM05052** Apply safe welding practices.
- MEM05085** Select welding processes.
- MEM05090** Weld using manual metal arc welding process.
- MEM09003** Prepare basic engineering drawing.
- MEM05003** Perform soft soldering.
- MEM05004** Perform routine oxy fuel gas welding.
- MEM05005** Carry out mechanical cutting.
- MEM05007** Perform manual heating and thermal cutting.
- MEM05009** Perform automated thermal cutting.
- MEM12007** Mark off/out structural fabrications and shapes.
- MEM05037** Perform geometric development.
- MEM05010** Apply fabrication, forming and shaping techniques.
- MEM05014** Monitor quality of production welding/fabrications.
- MEM13003** Work safely with industrial chemicals and materials.
- MEM08011** Prepare surfaces using solvents and/or mechanical means.
- MEM08007** Control surface finish production and finished product quality.
- MEM08014** Apply protective coatings (basic).
- MEM05050** Perform routine gas metal arc welding

**Course Fee:** Please contact support  
 info@alo.edu.au

## Languages We Speak

At ALO, we understand that learning in a language you're comfortable with can make all the difference. Our diverse team speaks multiple languages, ensuring you receive the guidance and support you need throughout your educational journey.

