

# MIG Level Two (Intermediate)

## MEM05017D – Weld using gas metal arc welding process



### Overview

This unit of competency covers the preparation, positioning, fixing, and manual welding techniques associated with general trade level welding using gas metal arc welding (GMAW) equipment including the selection and set up of the equipment appropriate to both the material i.e. plate/mild steel and the weld to be performed i.e. Fillet and Butt welds. Carrying out the GMAW to prescribed standards, and examining for and correcting defects, in a range of welded fabrications.

### Duration

#### Option 1

4 days/ 8 hours per day (Face to Face)  
8:00am to 4:30pm

#### Option 2

12 Wednesday nights/ 3 hours per night (Face to Face)  
5:00pm to 8:00pm

### Assessment

Theory Assessment

Practical Assessment.

### Entry Requirements

Participants **MUST**:

- Be at least 16 years
- Be an Australian/New Zealand Citizen or hold an eligible VISA.
- Have the ability to read, write and understand basic English and carry out basic mathematical calculations.
- Have the physical ability to perform practical fabrication skills.

### Pre-requisites

All participants wishing to attain the accredited MEM05017D unit will need to have successfully completed the following (and provide evidence to ATEC):

- MEM05050B – Perform routine gas metal arc welding
- MEM05051A – Select welding processes
- MEM05052A – Apply safe welding practices
- MEM12023A – Perform engineering measurements
- MEM18001C – Use hand tools; and
- MEM18002B – Use power tools/ hand held operations

**Note:** client who have not completed the above units may still be eligible to attend training, but will be issued with a Certificate of Attendance on successful completion of training.

### Course Fees

#### Option 1

- \$1120.00 (GST exempt)

#### Option 2

- \$1800.00 (GST exempt)

Courses must be paid for on booking unless alternative arrangements have been made. Training will not be confirmed until payment has been received.

### Content

- Prepare materials for manual metal arc welding (GMAW) Prepare materials
- Select welding equipment and consumables
- Assemble and set up welding equipment
- Minimise and rectify distortion
- Weld to job specification using GMAW
- Ensure weld conformance
- Where required, maintain weld records

### Learner Requirements

- Provide your Unique Student Identifier (USI). To apply for a USI go to <https://www.usi.gov.au/your-usi/create-usi>
- Provision of Australian legal photo identification for enrolment purposes

### PPE (Personal Protective Equipment)

To be supplied by participant:

- Safety Boots (steel cap)
- Safety glasses
- Appropriate workshop attire (non-flammable) i.e. **work trousers and a long-sleeved work shirt (for WHS reasons please do not wear excessively loose clothing)**
- Appropriate welding gloves and a welding helmet

### Outcome

On successful completion of all requirements of this course, learners holding all pre-requisites will be issued with:

1) A Statement of Attainment for MEM05017D – Weld using gas metal arc welding process

Alternatively, clients who do not hold all pre-requisites will be issued with:

2) A Statement of Attendance

## Delivery Locations

- Ottoway

## Pre-enrolment information

Important information for prospective students in regards to ATEC Policies is available at <http://www.atec.asn.au/pre-enrolment-information.html>

## How to apply

Applications and enquiries can be made:

- Online – [www.atec.asn.au](http://www.atec.asn.au)
- Email – [bookings@atec.asn.au](mailto:bookings@atec.asn.au)
- **Call ATEC on 1300 112 832**

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### Ottoway

275 Grand Junction Road, Ottoway  
South Australia 5013

### Lonsdale

5 Refinery Road, Lonsdale  
South Australia 5160

### Port Adelaide

12 Todd Street, Port Adelaide  
South Australia 5015