

# MEM30305G

## CERTIFICATE III IN ENGINEERING

### FABRICATION TRADE - BOILERMAKING / WELDING

Study With Axial Training To Get The  
Skills and Succeed



This course is for those employed as an apprentice in the manufacturing, engineering and related industry areas.

Apprentices will acquire skills and knowledge in workplace communication, workplace health and safety, quality procedures systems and planning, engineering measurement, computations and computer technology.

Industry-specific skills in welding and boiler making that are relevant to either current or intended employment will also be taught.

<b>Study Mode</b>	Workplace & Online
<b>Duration of Course</b>	Up to 48 Months
<b>Total Units</b>	12 + [12 Core & Elective Points - see over]



## Entry Requirements



### Minimum Age

You will need to be at least 16 years old.  
If you are under 18 your enrolment form  
will need to be signed by a parent or  
guardian.



### Requirements

You will need to have access to a Lap  
Top or Desk Top Computer with working  
speakers or headphones and a suitable,  
reliable internet connection.



### Career Outcomes

Steel Fabricator  
Welder  
Boilermaker

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### Pathways To Further Study

Certificate IV in Engineering

### Course Units

#### Core:

MEM13014A	Apply principles of OH&S in the work environment.	MEM15002A	Apply quality systems.
MEM15024A	Apply quality procedures.	MEM14005A	Plan a complete activity.
MEM16007A	Work with others in a manufacturing, engineering or related environment.	MEM14004A	Plan to undertake a routine task.
MEM16006A	Organise and communicate information.	MEM16008A	Interact with computing technology.
MSAENV272B	Participate in environmentally sustainable work practices.	MEM12023A	Perform engineering measurements.
MEM17003A	Assist in the provision of on the job training.	MEM12024A	Perform computations.

#### [Elective A+B at least 73 points]

#### Elective A:

MEM18001C	Use hand tools.	2 pts
MEM18002B	Use power tools/hand held operations.	2 pts
MEM09002B	Interpret technical drawing.	4 pts
MEM05012C	Perform routine manual metal arc welding.	2 pts
MEM05050B	Perform routine gas metal arc welding.	2 pts
MEM05049B	Perform routine gas tungsten arc welding.	2 pts
MEM05051A	Select welding processes.	2 pts
MEM05052A	Apply safe welding processes.	4 pts
MEM05005B	Carry out mechanical cutting.	2 pts
MEM05007C	Perform manual heating and thermal cutting.	2 pts
MEM03003B	Perform sheet and plate assembly.	4 pts
MEM05015D	Weld using manual metal arc welding process.	4 pts
MEM05017D	Weld using gas metal arc welding process.	4 pts
MEM05019D	Weld using gas tungsten arc welding process.	4 pts
MEM05037C	Perform geometric development.	6 pts
MEM12007D	Mark off/out structural fabrications and shapes.	4 pts
MEM05010C	Apply fabrication, forming and shaping techniques.	8 pts
MEM05011D	Assemble fabricated components.	8 pts
MEM05036C	Repair/replace/modify fabrications.	4 pts

#### Elective B :

MEM13003B	Work safely with industrial chemicals and materials	2 pts
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33 Brandl Street, Eight Mile Plains 4113  
382 Sturt St, Townsville 4810  
[www.axial.edu.au](http://www.axial.edu.au)