

Fact sheet

# Metal Fabricator

(ANZSCO: 322311)



## Job description

Metal Fabricators mark off and fabricate structural steel and other metal stock to make or repair metal products and structures.

Their job involves:

- » studying blueprints, drawings and specifications to determine job requirements
- » selecting, cleaning and preparing metal stock
- » cutting marked-out metal sections and shapes using hand tools, flame cutting torches and metal cutting machines
- » shaping and bending metal sections and pipes using hand and machine tools, and by heating and hammering
- » aligning parts to be joined using hand tools and measuring instruments
- » joining metal sections using various welding techniques, bolting and riveting
- » examining welds for width of bead, penetration and precision
- » finishing and cleaning products.

The qualification relevant to this job is **MEM30305 Certificate III in Engineering - Fabrication Trade**.

## How will I be assessed?

### Stage 1:

We will review your training and employment evidence to ensure you have:

- » 5 years' employment experience as a Metal Fabricator (with no formal training) **OR**
- » 3 years' employment experience as a Metal Fabricator (with relevant formal training\*).

\*'Formal training' is training that aligns with the national training standards in your country of training.

Your evidence must show you have worked in your occupation for at least 12 months within the last 3 years.

**For more information on the documents required for Stage 1, see the Evidence Guide on our website.**

### Stage 2:

If you are successful in Stage 1, an assessor will assess you via a technical interview. The technical interview will be conducted in English and no interpreters are allowed.

**For more information on Stage 2, see the Technical Interview Guide on our website.**

## What skills and knowledge do I need?

To be awarded the qualification MEM30305 Certificate III in Engineering - Fabrication Trade, you must demonstrate your skill and knowledge in a selection of the following **units of competency**. Each unit of competency defines a selection of knowledge and skill required in Australian workplaces.

You must demonstrate competency in **all core** units, and demonstrate competency in additional units to a total of **at least 73 points** (the number of points relating to each unit is shown in brackets).

These units have been organised into 5 groups as follows:

### CORE UNITS

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

### ENGINEERING OPERATIONS

- » MEM05005B Carry out mechanical cutting\* (2)
- » MEM07001B Perform operational maintenance of machines / equipment\* (2)
- » MEM07024B Operate and monitor machine / process (4)
- » MEM07032B Use workshop machines for basic operations\* (2)
- » MEM09002B Interpret technical drawing (4)
- » MEM11011B Undertake manual handling (2)
- » MEM13003B Work safely with industrial chemicals and materials (2)
- » MEM18001C Use hand tools (2)
- » MEM18002B Use power tools / hand held operations (2)
- » MEM18011C Shut down and isolate machines / equipment (2)

### WELDING

- » MEM05052A Apply safe welding practices (4)
- » MEM05007C Perform manual heating and thermal cutting (2)
- » MEM05008C Perform advanced manual thermal cutting, gouging and shaping\* (2)
- » MEM05012C Perform routine manual metal arc welding (2)
- » MEM05013C Perform manual production welding (2)
- » MEM05014C Monitor quality of production welding / fabrications\* (2)
- » MEM05015D Weld using manual metal arc welding process\* (4)
- » MEM05017D Weld using gas metal arc welding process\* (4)
- » MEM05019D Weld using gas tungsten arc welding process\* (4)
- » MEM05047B Weld using flux core arc welding process\* (4)
- » MEM05049B Perform routine gas tungsten arc welding (2)
- » MEM05050B Perform routine gas metal arc welding (2)
- » MEM05051A Select welding processes (2)

## FABRICATION

- » MEM03001B Perform manual production assembly (4)
- » MEM03003B Perform sheet and plate assembly\* (4)
- » MEM05011D Assemble fabricated components\* (8)
- » MEM05036C Repair/replace/modify fabrications\* (4)
- » MEM05037C Perform geometric development\* (6)
- » MEM12007D Mark off/out structural fabrications and shapes\* (4)

## NC/CNC MACHINING

- » MEM07015B Set computer controlled machines/processes\* (2)
- » MEM07016C Set and edit computer controlled machines/processes\* (4)
- » MEM07018C Write basic NC/CNC programs\* (4)
- » MEM07019C Program NC/CNC machining centre\* (2)
- » MEM07028B Operate computer controlled machines / process\* (2)

**NOTE:** \* indicates that a unit requires a pre-requisite/s.

## How do I find out more about each unit of competency?

1. Go to the following website: <http://training.gov.au/Search/Training>
2. Enter a unit code (e.g. MEM12023A) into the 'Title or code' search box
3. Tick the 'Units of competency' check box
4. Select the 'Search' button
5. Select the unit from the search results
6. Read the Unit of Competency information

## What will I receive after the assessment?

If you **successfully** complete Stage 2 you will receive:

- » an Australian Certificate III qualification and a Statement of Results
- » a migration outcome letter if the assessment is to support your visa application.

If you are **unsuccessful** in Stage 2 you will receive:

- » a Statement of Attainment that lists the units of competency you successfully achieved
- » a Statement of Results that lists units of competency you have successfully achieved and those that were not achieved.

## Where can I find more information?

Please refer to our website: <http://www.vetassess.com.au/skills-assessment-for-migration/trade-occupations>

If you have further questions, contact us at:

 **+61 3 9655 4801**

 **vetassess@vetassess.com.au**

