



# Metal Fabricator

ANZSCO Code: 322311

## Occupation 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.

# How will I be assessed?

## Stage 1: Documentary Evidence Assessment

# 1

We will review your documentary evidence to ensure it meets the employment and training requirements and indicates that you have the necessary skills, knowledge and experience as a Metal Fabricator.

You can find information about the employment, training, and document requirements below:

- For information on what evidence you need to include with your application, download the **Evidence guide**.
- If you are in pathway 1 you also need to find information on assessment for your specific occupation
  - **Video guide**
  - **Observation report**
- For information about the employment experience requirements for a Pathway 1 application, please refer to the **Pathway 1 Employment Experience Guidelines**.
- If you are applying for a Pathway 2 assessment:
  - read the **Pathway 2 Assessment Guide**.
  - complete and submit **Observation report** with your application

## Stage 2: Technical Assessment

# 2

If you are successful in Stage 1, you will complete a technical assessment.

For more information about the technical assessment, see the **Pathway 1 Technical Assessment Guide** and **Pathway 2 Candidate Guide**.

# What skills and knowledge do I need?

The qualification relevant to this occupation is the **MEM31922 Certificate III in Engineering – Fabrication Trade**.

To be awarded this qualification, you must demonstrate your skills and knowledge in the units of competency listed in the table on page 3. Each unit of competency defines a selection of knowledge and skills required in Australian workplaces.

You must achieve 30 units of competency:

- > 12 core units
- > 18 elective units

## Core Units

Code	Title
<b>Safety, communication and quality in engineering</b>	
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information*
MEM14006	Plan work activities*
MEM11011	Undertake manual handling*
MSMENV272	Participate in environmentally sustainable work practices
MEM17003	Assist in the provision of on-the-job training*
<b>Engineering measurements and tools</b>	
MEM12023	Perform engineering measurements*
MEM12024	Perform computations*
MEM09002	Interpret technical drawing*
MEM16008	Interact with computing technology*
MEM18001	Use hand tools*
MEM18002	Use power tools/hand held operations*

## Elective Units

Code	Title
<b>Heating and cutting</b>	
MEM05005	Carry out mechanical cutting*
MEM05007	Perform manual heating and thermal cutting*
<b>Welding safety and processes</b>	
MEM05051	Select welding processes*
MEM05085	Apply safe welding practices*
<b>Routine welding</b>	
MEM05012	Perform routine manual metal arc welding*
MEM05049	Perform routine gas tungsten arc welding*
MEM05050	Perform routine gas metal arc welding*
MEM05056	Perform routine flux core arc welding*
<b>Welding (choose two units)</b>	
MEM05090	Weld using manual metal arc welding process*
MEM05092	Weld using gas tungsten arc welding process*
MEM05091	Weld using gas metal arc welding process*
MEM05096	Weld using flux core arc welding process*
<b>Welding inspection</b>	
MEM15004	Perform inspection*
MEM05014	Monitor quality of production welding/fabrications*
<b>Fabrication and assembly</b>	
MEM12007	Mark off/out structural fabrications and shapes*
MEM05037	Perform geometric development*
MEM05010	Apply fabrication, forming and shaping techniques*
MEM05089	Assemble fabricated components*
MEM18055	Dismantle, replace and assemble engineering components*
MEM05094	Repair, replace and/or modify fabrications*

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

You are strongly encouraged to review each of the units of competency shown above. To do this:

1. Go to the following website:  
<http://training.gov.au/Search>.
2. Enter a unit code (e.g. MSMWHS200) into the 'Title or code' search box.
3. Click on the 'NRT' button.
4. Click on the 'Search' button.
5. Read the Unit of Competency information.

## 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:



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