



# Welder

(First Class)

ANZSCO Code: 322313

## Occupation Description:

Welders fabricate and repair metal products using various welding techniques.



## 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 Welder.

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**.
  - **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, please read the **Pathway 2 Assessment Guide**.

## 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 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 32 units of competency:

- › 12 core units
- › 20 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*
MEM05071	Perform advanced manual thermal cutting, gouging and shaping*
<b>Welding safety and processes</b>	
MEM05085	Select welding processes*
MEM05052	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*

## Elective Unit Streams – Welding

Code	Title
<b>Choose two of the four welding streams below</b>	
<b>Manual metal arc welding</b>	
1	MEM05090 Weld using manual metal arc welding process*
1	MEM05072 Perform advanced welding using manual metal arc welding process*
<b>Gas tungsten arc welding</b>	
2	MEM05092 Weld using gas tungsten arc welding process*
2	MEM05074 Perform advanced welding using gas tungsten arc welding process*
<b>Gas metal arc welding</b>	
3	MEM05091 Weld using gas metal arc welding process*
3	MEM05073 Perform advanced welding using gas metal arc welding process*
<b>Flux core arc welding</b>	
4	MEM05096 Weld using flux core arc welding process*
4	MEM05084 Perform advanced welding using flux core arc welding process*

## Elective Units

Code	Title
<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*
MEM05089	Assemble fabricated components*
MEM05094	Repair, replace and/or modify fabrications*
MEM10010	Install pipework and pipework assemblies*
MEM18055	Dismantle, replace and assemble engineering components*

## 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:

 **+61 3 9655 4801**

 **tradeassess@vetassess.com.au**