



# Fitter–Welder Factsheet

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ANZSCO: 323213



## Occupation Description

Fitter-Welders fit, assemble and weld metal parts and subassemblies to fabricate production machines and other equipment.

### Their job involves:

- » Studying drawings and specifications to determine suitable material, method and sequence of operations, and machine settings
- » Cutting, grinding and shaping metal and other materials using specialised tools and machinery
- » Joining metal sections using various welding techniques
- » Fitting fabricated metal parts into products and assembling metal parts and subassemblies to produce machines and equipment
- » Checking fabricated and assembled metal parts for accuracy, clearance and fit using precision measuring instruments
- » Cutting, threading, bending and installing hydraulic and pneumatic pipes and lines
- » Diagnosing and repairing faults with tools and machinery and performing regular maintenance.

## How will I be assessed?

### Stage 1: Documentary Evidence Assessment

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 Fitter-Welder.

Pathway 1 non-licensed trades will need to provide additional documentary, video and photo evidence with their Documentary Evidence Assessment application.

You can find information about the employment and training requirements, and the documents required in the Pathway 1, Pathway 2 and Evidence guides on our [website](#).

### Stage 2: Technical Assessment

If you are successful in Stage 1, you will then complete a technical interview with our assessor. The technical interview is conducted in English with no interpreters allowed.

For more information about the technical interview, see the [Stage 2 Assessment Guide](#) on our website.

## What skills and knowledge do I need?

The qualification relevant to this occupation is **MEM30219 Certificate III in Engineering – Mechanical 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

### Safety, communication and quality in engineering

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
MEM16008	Interact with computing technology*
MEM17003	Assist in the provision of on-the-job training*
MEM12024	Perform computations*
MEM12023	Perform engineering measurements*

### Engineering tools

MEM18001	Use hand tools*
MEM18002	Use power tools/hand held operations*
MEM09002	Interpret technical drawing*

## Elective Units

### Welding

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*
MEM05014	Monitor quality of production welding/fabrications*
MEM15004	Perform inspection*

### Mechanical heating and cutting

MEM05005	Carry out mechanical cutting*
MEM05007	Perform manual heating and thermal cutting*
MEM05004	Perform routine oxy fuel gas welding*
MEM12006	Mark off/out (general engineering)*
MEM18055	Dismantle, replace and assemble engineering components*
MEM13003	Work safely with industrial chemicals and materials*

### Precision measurements

MEM12003	Perform precision mechanical measurement*
MEM18003	Use tools for precision work*

### Technical skills

MEM18006	Perform precision fitting of engineering components*
MEM18005	Perform fault diagnosis, installation and removal of bearings*
MEM18009	Perform precision levelling and alignment of machines and engineering components*
MEM18018	Maintain pneumatic system components

### Machining

MEM07005	Perform general machining
MEM07006	Perform lathe operations

You must demonstrate competency in all core and elective units of competency and all of their pre-requisite units.

**NOTE:**

\* — indicates that a unit requires a pre-requisite/s

## 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:

- » Go to the following website:  
<http://training.gov.au/Search/Training>
- » Enter a unit code (e.g. MEM12024) into the 'Title or code' search box
- » Tick the 'Units of competency' check box
- » Select the 'Search' button
- » Select the unit from the search results
- » Read the Unit of Competency information.



## What will I receive after the assessment?

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

- » a Skills Assessment Result Letter to support your visa application

### And if applying under Pathway 1:

- » An Australian Certificate III qualification and a Statement of Results

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

- » a Skills Assessment result letter

### And if applying under Pathway 1:

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

## Where can I find more information?

Please refer to our [website](#)

### If you have further questions, contact us at:

- » Phone: +61 3 9655 4801
- » Email: [tradeassess@vetassess.com.au](mailto:tradeassess@vetassess.com.au)



# Contact Us

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