



# 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.

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 **MEM30205 Certificate III in Engineering – Mechanical Trade**.

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

You must demonstrate competency in all core units and 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 6 groups. (See table on page 3).

## Core Units

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

### General Operations

MEM05005B	Carry out mechanical cutting* (2)
MEM07001B	Perform operational maintenance of machines/equipment* (2)
MEM09002B	Interpret technical drawing (4)
MEM11010B	Operate mobile load shifting equipment (4)
MEM11011B	Undertake manual handling (2)
MEM12001B	Use comparison & basic measuring devices (2)
MEM12003B	Perform precision mechanical measurements* (2)
MEM12006C	Mark off/out general engineering* (4)
MEM13003B	Work safely with industrial chemicals and materials (2)
MEM18001C	Use hand tools (2)
MEM18002B	Use power tools/hand held operations (2)
MEM18003C	Use tools for precision work* (4)
MEM18011C	Shut down & isolate machines / equipment (2)

### Engineering Operations

MEM07032B	Use workshop machines for basic operations* (2)
MEM18004B	Maintain & overhaul mechanical equipment* (4)
MEM18005B	Perform fault diagnosis, installation and removal of bearings* (4)
MEM18006C	Repair and fit engineering components* (6)
MEM18007B	Maintain & repair mechanical drives and mechanical transmission assemblies* (4)
MEM18009B	Perform a levelling & alignment of machines & engineering components* (4)
MEM18010C	Perform equipment condition monitoring and recording* (4)
MEM18012B	Perform installation and removal of mechanical seals* (2)
MEM18055B	Dismantle, replace and assemble engineering components* (3)

## Elective Units

### Machining Operations

MEM07005C	Perform general machining* (8)
MEM07006C	Perform lathe operations* (4)
MEM07007C	Perform milling operations* (4)
MEM07008D	Perform grinding operations* (4)

### Hydraulics / Pneumatics

MEM18018C	Maintain pneumatic system components* (4)
MEM18019B	Maintain pneumatic systems* (4)
MEM18020B	Maintain hydraulic system components* (4)
MEM18021B	Maintain hydraulic systems* (4)

### Welding

MEM05007C	Perform manual heating & thermal cutting (2)
MEM05008C	Perform advanced manual thermal cutting, gouging and shaping* (2)
MEM05012C	Perform routine manual metal arc welding (2)
MEM05049B	Perform routine gas tungsten arc welding (2)
MEM05050B	Perform routine gas metal arc welding (2)
MEM05051A	Select welding processes (2)
MEM05052A	Apply safe welding practices (4)

You are required to provide evidence of your skills, knowledge and experience in at least ONE of the following elective areas as part of the assessment process.

#### NOTE:

\* — indicates that a unit requires a pre-requisite/s  
(#) — the number of points relating to each unit

## 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. MEM12023A) 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:

<http://www.vetassess.com.au/skills-assessment-for-migration/trade-occupations>

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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