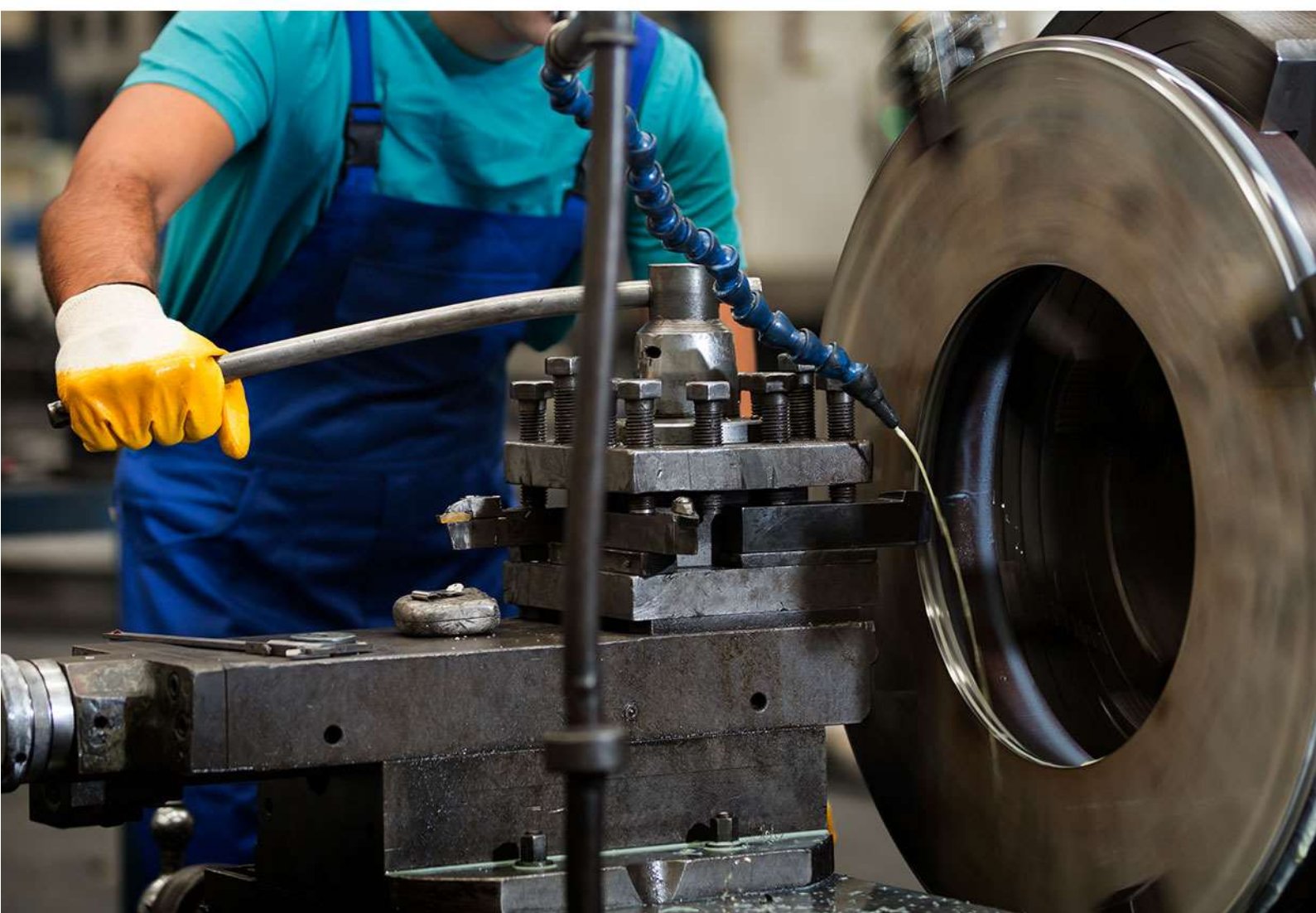


# Metal Fabricator

(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?

Assessment is conducted in two stages:

### Documentary Evidence Assessment:

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

- with no formal training – five years work experience.
- with formal training – three years work experience
- the range of skills and knowledge required by a Metal Fabricator.

Your experience may include time spent in workplace-based training, up to a maximum of 12 months.

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 Documentary Evidence Assessment Stage, see the [Evidence Guide](#) on our website.

### Technical Interview:

If you are successful in Documentary Evidence Assessment, 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 Technical Interview, 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 number of 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 last column).

	Code	Title	Core/ Elective	Weighting Points	Group	Pre- requisite
1.	MEM12023A	Perform engineering measurements	Core	NIL	N/A	NIL
2.	MEM12024A	Perform computations	Core			NIL
3.	MEM13014A	Apply principles of occupational health and safety in the work environment	Core			NIL
4.	MEM14004A	Plan to undertake a routine task	Core			NIL
5.	MEM14005A	Plan a complete activity	Core			NIL
6.	MEM15002A	Apply quality systems	Core			NIL
7.	MEM15024A	Apply quality procedures	Core			NIL
8.	MEM16006A	Organise and communicate information	Core			NIL
9.	MEM16007A	Work with others in a manufacturing, engineering or related environment	Core			NIL
10.	MEM16008A	Interact with computing technology	Core			NIL
11.	MEM17003A	Assist in the provision of on the job training	Core			NIL
12.	MSAENV272 B	Participate in environmentally sustainable work practices	Core			NIL
13.	MEM03003B	Perform sheet and plate assembly	Elective	4	A	1, 31
14.	MEM05005B	Carry out mechanical cutting	Elective	2	A	NIL
15.	MEM05007C	Perform manual heating and thermal cutting	Elective	2	A	NIL
16.	MEM05010C	Apply fabrication, forming and shaping techniques	Elective	8	A	1, 2, 21, 29, 31
17.	MEM05012C	Perform routine manual metal arc welding	Elective	2	A	NIL
18.	MEM05015D	Weld using manual metal arc welding process	Elective		A	1, 17, 26, 27, 31, 32
19.	MEM05019D	Weld using gas tungsten arc welding process	Elective	4	B	1, 24, 26, 27, 31, 32
20.	MEM05020C	Perform advanced welding using gas tungsten arc welding	Elective	4	A	1, 15, 24, 26, 27, 28, 29, 31, 32
21.	MEM05037C	Perform geometric development	Elective	6	A	1, 2, 29
22.	MEM05047B	Weld using flux core arc welding process	Elective	4	A	1, 25, 26, 27, 31, 32
23.	MEM05048B	Perform advanced welding using flux core arc welding process	Elective		A	1, 15, 22, 25, 26, 27, 29, 31, 32
24.	MEM05049B	Perform routine gas tungsten arc welding	Elective	2	A	NIL
25.	MEM05050B	Perform routine gas metal arc welding	Elective	2	A	NIL

	Code	Title	Core/ Elective	Weighting Points	Group	Pre- requisite
26.	MEM05051A	Select welding processes	Elective	2	B	NIL
27.	MEM05052A	Apply safe welding practices	Elective	4	B	NIL
28.	MEM08010B	Manually finish/ polish materials	Elective	6	B	31
29.	MEM09002B	Interpret technical drawing	Elective	4	A	NIL
30.	MEM12007D	Mark off/out structural fabrications and shapes	Elective	4	A	1
31.	MEM18001C	Use hand tools	Elective	2	A	NIL
32.	MEM18002B	Use power tools/hand held operations	Elective	2	A	31, 32
33.	MEM18011C	Shut down and isolate machines/equipment	Elective	2	B	NIL
34.	MEM24001B	Perform basic penetrant testing	Elective	2	B	31
<b>TOTAL Weighting Points</b>			<b>Group A - 48 / Group B - 26</b>			
<b>TOTAL Weighting Points – full qualification</b>			<b>74</b>			

## What can I expect to be asked at the Technical / Practical Assessment?

- Write answers to Workplace Health and Safety (WHS) questions, environment questions and complete a Job Safety Analysis (JSA).
- Complete a number of drawings and marking out exercises, identifying welding symbols and calculate tolerances
- Complete a number of welds using MMAW, GMAW, TIG, and FCAW
- Clean, test and modify welds

## What programs does this assessment fall under?

This assessment comes under the following programs and regions:

OSAP (Europe & All states of Australia)

TRS (All states of Australia)

TSS (Europe & All states of Australia)

## What will I receive after the Interview?

If you **successfully** complete the Technical Interview you will receive the following:

- 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 Technical Interview 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: <https://www.atc.org.au/trades-recognition/> 

Any queries may be directed to:

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Scarborough Qld 4020

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