



Metal Machinist (First Class)

ANZSCO: 323214



Occupation Description

Metal Machinists set up and operate machine tools to shape and form metal stock and castings to fine tolerances, using detailed drawings and specifications.

Their job involves:

- » studying drawings and specifications to determine suitable material, method and sequence of operations, and machine settings
- » 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
- » setting guides, stops and other controls on machining tools, setting up prescribed cutting and shaping tools and dies in machines and presses
- » forming metal stock and castings to fine tolerances using machining tools to press, cut, grind, plane, bore and drill metal
- » diagnosing faults and performing operational maintenance of machines, and overhauling and repairing mechanical parts and fluid power equipment.

Metal Machinists may also:

- » use NC/CNC machines
- » perform fitting operations
- » perform welding operations

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 Metal Machinist.

You can find more 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 complete a technical interview with our assessor. The technical interview will be 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 31 units of competency:

- » 12 core units
- » 19 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

MEM13003	Work safely with industrial chemicals and materials*
----------	--

Precision measurements

MEM12003	Perform precision mechanical measurement*
MEM18003	Use tools for precision work*
MEM12006	Mark off/out (general engineering)*
MEM18055	Dismantle, replace and assemble engineering components*

Mechanical heating and cutting

MEM05005	Carry out mechanical cutting*
MEM05007	Perform manual heating and thermal cutting*

Machining

MEM07005	Perform general machining*
MEM07006	Perform lathe operations*
MEM07007	Perform milling operations*
MEM07008	Perform grinding operations*
MEM07010	Perform tool and cutter grinding operations*
MEM07011	Perform complex milling operations*

Machining computer processes

MEM07015	Set computer controlled machines and processes*
MEM07016	Set and edit computer controlled machines and processes*
MEM18010	Perform equipment condition monitoring and recording*

Welding

MEM05012	Perform routine manual metal arc welding*
MEM05049	Perform routine gas tungsten arc welding*
MEM05050	Perform routine gas metal arc welding*

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

Contact Us

AUSTRALIA

Melbourne (Headquarters)

Level 5, 478 Albert Street
East Melbourne
VIC 3002

E info@vetassess.com.au

P +61 1300 VETASSESS

(1300 838 277)

CHINA

Shanghai

C/o GLC
International Group
Suite 201 A-B
Zhongfu Building
288 Zhaojiabang Road
Shanghai, China

E china@vetassess.com.au

P +86 21 64731935

INDIA

New Delhi

C/o EPR Solutions Pvt. Ltd
115, 1st Floor, Square One
C2-Saket Place
Saket District Centre
New Delhi – 110017

E india@vetassess.com.au

P +91 11 41009213

PHILIPPINES

Manila

E info@vetassess.com.au

P +632 8538 5083

UNITED KINGDOM

London

E uk@vetassess.com.au

P +0808 234 9873