

ANZSCO Code: 323214

Metal Machinist

(First Class)



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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 Machinist may also:

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

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 Metal Machinist (First Class).

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.

> vetassess.com.au

Stage 2: Technical Assessment

2

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 Pathway 1 Technical Assessment Guide and Pathway 2 Candidate Guide on our website.

> vetassess.com.au

What skills and knowledge do I need?

The qualification relevant to this occupation is the **MEM30219 Certificate III in Engineering – Mechanical Trade (Machining)**.

To be awarded this qualification, you must demonstrate your skills and knowledge in the units of competency listed in the table below. 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

Code	Title
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
MEM17003	Assist in the provision of on-the-job training*
Engineering measurements and tools	
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
Precision measurements	
MEM12003	Perform precision mechanical measurement*
MEM18003	Use tools for precision work*
Machining	
MEM12006	Mark off/out (general engineering)*
MEM05005	Carry out mechanical cutting*
MEM07005	Perform general machining*
MEM07024	Operate and monitor machine and process*
MEM07006	Perform lathe operations*
MEM07007	Perform milling operations*
MEM07009	Perform precision jig boring operations*
MEM07008	Perform grinding operations*
MEM15004	Perform inspection*

Elective Units (continued)

Code	Title
Computer-controlled machines	
MEM07015	Set computer controlled machines and processes*
MEM07016	Set and edit computer controlled machines and processes*
MEM07018	Write basic NC and CNC programs*
Technical skills	
MEM18055	Dismantle, replace and assemble engineering components*
MEM18010	Perform equipment condition monitoring and recording*
MEM15003	Use improvement processes in team activities*

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>
- › Enter a unit code (e.g. MEM12024) into the search box
- › Click on the 'NRT' button
- › Click on the 'Search' button
- › 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.
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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
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- › A Statement of Results that lists the units of competency you have successfully achieved and those that were not achieved.
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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:



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