

Metal Machinist

(First Class)

ANZSCO Code: 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.

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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 (First Class).

You can find information about the employment, training, and document requirements below:

- For information on what evidence you need to include with your application, download the Evidence guide.
- If you are in pathway 1 you also need to find information on assessment for your specific occupation
 - Video guide
 - Observation report
- For information about the employment experience requirements for a Pathway 1 application, please refer to the **Pathway 1 Employment Experience Guidelines**.
- If you are applying for a Pathway 2 assessment, please read the Pathway 2 Assessment Guide.

Stage 2: Technical Assessment



If you are successful in Stage 1, you will complete a technical assessment.

For more information about the technical assessment, see the **Pathway 1 Technical Assessment Guide** and **Pathway 2 Candidate Guide**.

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 29 units of competency:

- > 12 core units
- > 17 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*	
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*	

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:

- 1. Go to the following website: http://training.gov.au/Search.
- 2. Enter a unit code (e.g. MSMWHS200) into the 'Title or code' search box.
- 3. Click on the 'NRT' button.
- 4. Click on the 'Search' button.
- 5. Read the Unit of Competency information.

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:

+61 3 9655 4801

tradeassess@vetassess.com.au