VETASSESS

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.

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 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**
  - complete and submit **Observation report** with your application

Stage 2: Technical Assessment 2

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

2. Enter a unit code (e.g. MSMWHS200) into the search box.

3. Click on the Nationally recognised training 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:

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