



Toolmaker Factsheet

ANZSCO: 323412



Occupation Description

Toolmakers make and repair tools, dies, jigs, fixtures and other precision parts and equipment to fine tolerances for machine tools and other production machinery.

Their job involves:

- » studying drawings and specifications to determine dimensions and tolerances of articles to be manufactured

- » measuring and marking out metal stock and castings using various gauges

- » cutting, shaping and forming metal and other materials using machine tools

- » checking accuracy of manufactured articles to fine tolerances, using precision measuring instruments

- » testing and modifying manufactured articles

- » diagnosing and repairing faults with tools and machinery, and performing regular maintenance.

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 Toolmaker.

You can find 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 then complete a technical interview with our assessor. The technical interview is 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 **MEM31519 Certificate III in Engineering – Toolmaking Trade**.

To be awarded this qualification, you must demonstrate your skills and knowledge in the following units of competency. Each unit of competency defines a selection of knowledge and skills required in Australian workplaces.

You must achieve 33 units of competency:

- » 24 core units

- » 9 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*
Calculations and Data	
MEM12024	Perform computations*
MEM12026	Perform advanced trade calculations in a manufacturing, engineering or related environment*
Engineering Measurements	
MEM12023	Perform engineering measurements*
MEM12003	Perform precision mechanical measurement*
Engineering Tools	
MEM18001	Use hand tools*
MEM18002	Use power tools/hand held operations*
MEM18003	Use tools for precision work*
Technical Skills: Interpretation of Engineering Specifications	
MEM09002	Interpret technical drawing*
MEM12006	Mark off/out (general engineering)*
Technical Skills: Work with Engineering Components	
MEM18055	Dismantle, replace and assemble engineering components*
MEM18006	Perform precision fitting of engineering components*
MEM06007	Perform basic incidental heat/quenching, tempering and annealing*
Machining Components	
MEM07005	Perform general machining*
MEM07006	Perform lathe operations*
MEM07007	Perform milling operations*
MEM07008	Perform grinding operations*
MEM18015	Maintain tools and dies*

Elective Units	
MEM18097	Manufacture cavity dies*
	OR
MEM18014	Manufacture press tools and gauges*
MEM13003	Work safely with industrial chemicals and materials*
Mechanical Heating and Cutting	
MEM05005	Carry out mechanical cutting*
MEM05007	Perform manual heating and thermal cutting*
MEM05004	Perform routine oxy fuel gas welding*
MEM05012	Perform routine manual metal arc welding*
Machining Computer Processes	
MEM07015	Set computer controlled machines and processes*
MEM07016	Set and edit computer controlled machines and processes*
MEM16005	Operate as a team member to conduct manufacturing, engineering or related activities*

You must demonstrate competency in all core and elective units of competency (you can choose between MEM18097 and MEM18014 units) 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. MEM12023A) 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:

<http://www.vetassess.com.au/skills-assessment-for-migration/trade-occupations>

If you have further questions, contact us at:

- » Phone: +61 3 9655 4801
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