



# Toolmaker

ANZSCO Code: 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

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 Toolmaker.

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**.
  - **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

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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 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

Code	Title
<b>Safety, communication and quality in engineering</b>	
MEM13015	Work safely and effectively in manufacturing and engineering
MEM13003	Work safely with industrial chemicals and materials*
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*
MEM16005	Operate as a team member to conduct manufacturing, engineering or related activities*
<b>Engineering measurements and tools</b>	
MEM12023	Perform engineering measurements*
MEM12003	Perform precision mechanical measurement*
MEM12024	Perform computations*
MEM09002	Interpret technical drawing*
MEM12026	Perform advanced trade calculations in a manufacturing engineering or related environment*
MEM16008	Interact with computing technology*
MEM18001	Use hand tools*
MEM18002	Use power tools/hand held operations*
MEM18003	Use tools for precision work*
<b>Machining</b>	
MEM12006	Mark off/out (general engineering)*
MEM05005	Carry out mechanical cutting*
MEM07005	Perform general machining*
MEM07006	Perform lathe operations*
MEM07007	Perform milling operations*
MEM07009	Perform precision jig boring operations*
MEM07008	Perform grinding operations*
MEM15004	Perform inspection*
<b>Computer-controlled machines</b>	
MEM07015	Set computer controlled machines and processes*
MEM07016	Set and edit computer controlled machines and processes*

## Elective Units

Code	Title
<b>Cavity dies and press tools</b>	
MEM06007	Perform basic incidental heat/quenching, tempering and annealing*
MEM18015	Maintain tools and dies*
<b>Choose one unit from below</b>	
MEM18097	Manufacture cavity dies*
MEM18014	Manufacture press tools and gauges*

## 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**