



**Australian Government**

# **MSTGN4012 Fabricate or machine tooling**

**Release: 1**

# MSTGN4012 Fabricate or machine tooling

## Modification History

Release 1. Supersedes and is equivalent to LMTGN4012A Fabricate or machine tooling

## Application

This unit of competency covers the skills and knowledge required to fabricate or machine tooling for applications within an enterprise.

The unit of competency applies to activities associated with the forming and shaping of tools. Discretion and judgement may be required, for both self and others, in planning and selecting processes, procedures or outcomes.

This unit of competency is applicable to all sectors of the textiles, clothing and footwear (TCF) industry.

Work may be conducted in small to large scale enterprises and may involve individual and team activities. Work is performed within defined procedures

No licensing, legislative or certification requirements apply to this unit at the time of publication.

## Pre-requisite Unit

Nil

## Competency Field

Generic

## Unit Sector

Not applicable

## Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- |                                     |                                                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------|
| <b>1 Determine job requirements</b> | <b>1.1</b> Follow standard operating procedures (SOPs)                                 |
|                                     | <b>1.2</b> Comply with work health and safety (WHS) requirements at all times          |
|                                     | <b>1.3</b> Use appropriate personal protective equipment (PPE) in accordance with SOPs |

- |   |                                     |     |                                                                                                                   |
|---|-------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------|
|   |                                     | 1.4 | Identify job requirements from specifications, drawings, job sheets or work instructions                          |
| 2 | <b>Prepare tooling requirements</b> | 2.1 | Determine tooling requirements, measurements and limitations are according to design specifications provided      |
|   |                                     | 2.2 | Seek clarification related to tooling application, where required                                                 |
|   |                                     | 2.3 | Select appropriate machines and equipment for the tasks                                                           |
|   |                                     | 2.4 | Prepare and adjust machines and equipment, as necessary, for operation according to standard operating procedures |
| 3 | <b>Form or shape tool</b>           | 3.1 | Select, mark or otherwise prepare tooling material for fabrication and machining                                  |
|   |                                     | 3.2 | Make allowances for shrinkage, thicknesses, templates, gauges and inside or outside measurements                  |
|   |                                     | 3.3 | Perform fabrication or machining procedures in accordance with WHS practices and workplace procedures             |
|   |                                     | 3.4 | Check completed tooling conforms to design specifications                                                         |

## Foundation Skills

This section describes those required skills (language, literacy and numeracy) that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

**Workplace procedures include one or more of the following:**

- requirements prescribed by legislation, awards, agreements and conditions of employment
- SOPs
- work instructions
- oral, written and visual communication
- quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output
- housekeeping
- tasks related to environmental protection, waste disposal, pollution control and recycling
- WHS practices

**Australian Standards include:**

- the relevant industry or Australian Standards that are current at the time this unit is being undertaken

**Tooling includes, but is not limited to, one or more of the following:**

- cutting knives
- punch dies

## Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTGN4012A Fabricate or machine tooling

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>