



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.

1 Determine job requirements

- 1.1 Follow standard operating procedures (SOPs)
- 1.2 Comply with work health and safety (WHS) requirements at all times
- 1.3 Use appropriate personal protective equipment (PPE) in accordance with SOPs

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| | | 1.4 | Identify job requirements from specifications, drawings, job sheets or work instructions |
| 2 | Prepare tooling requirements | 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 | Form or shape tool | 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

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Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MSTGN4012 Fabricate or machine tooling

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria, and include:

- reading and following work instructions, standard operating procedures (SOPs), safe work practices and specifications
- applying relevant standards
- establishing tooling requirements
- operating machines or equipment appropriately
- fabricating or machining tooling accurately on at least two (2) occasions
- liaising with engineer or external supplier
- communicating effectively with design team and customers
- checking outcomes against quality standards and specifications
- applying work health and safety (WHS) policies in work operations
- maintaining accurate records, document and transfer information
- applying workplace procedures.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- relevant Australian Standards
- procedures for set up and operation of machinery
- procedures for forming and shaping
- relevant standards
- quality requirements
- materials used in production
- WHS and environmental aspects of relevant enterprise activities
- workplace procedures and reporting processes
- relevant WHS legislation and codes of practice
- WHS practices, including hazard identification and control measures
- recording and reporting practices
- workplace procedures.

Assessment Conditions

- Assessors must:
 - satisfy the assessor competency requirements that are in place at the time of the assessment, as set by the VET regulator
 - have vocational competency in fabricating machine tooling, at least to the level being assessed, with relevant industry knowledge and experience.
- Assessment should occur in operational workplace situations. Where this is not possible, or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required including relevant workplace procedures, product and manufacturing specifications associated with this unit.
- The unit is applicable to all TCF sectors and assessment must ensure it is delivered to suit the industry it is being applied to.

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