



Australian Government

MSTFP2008 Perform moulding operations

Release: 1

MSTFP2008 Perform moulding operations

Modification History

Release 1. Supersedes and is equivalent to LMTFP2008B Perform moulding operations

Application

This unit of competency covers the skills and knowledge required to perform moulding operations.

The unit of competency applies to the preparation, operation, monitoring and adjusting of moulding machines used to mould and attach soles to footwear.

Work may be conducted in small to large scale enterprises and may involve individual and team activities.

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

Pre-requisite Unit

Nil

Competency Field

Footwear production

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
- 1.4 Identify job requirements from specifications, drawings, job sheets or work instructions

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|---|---|-----|---|
| 2 | Set up and load moulding machine | 2.1 | Adjust machine settings to meet product requirements |
| | | 2.2 | Check sole moulds and set according to manufacturer specifications |
| | | 2.3 | Check mould size, type and date stamp, and load lasted uppers onto machine |
| | | 2.4 | Prepare mould material, moulding tools and equipment and check for production |
| | | 2.5 | Report non-conforming materials |
| | | 2.6 | Clean area around machine during and on completion of setting and loading |
| | | | |
| 3 | Operate and monitor moulding machine | 3.1 | Start up and shut down machine according to manufacturer requirements |
| | | 3.2 | Monitor machine operation to ensure correct procedures are assessed and product meets quality standards |
| | | 3.3 | Perform checks to ensure required flow of moulding material and report non-conforming product |
| | | 3.4 | Sort waste and clean machine when required |
| | | 3.5 | Identify minor product process and machine faults and address to meet specified requirements |
| | | 3.6 | Report major machine or product faults |
| | | | |
| 4 | Conduct final quality check and complete records | 4.1 | Check moulded sole against quality standards |
| | | 4.2 | Unload footwear from moulding machine according to manufacturer specifications |
| | | 4.3 | Complete cleaning of area to ensure work environment is maintained in a safe and productive manner |
| | | 4.4 | Complete production records and other documentation |

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

Mould material includes one or more of the following:

- PVC
- rubber
- polyurethane
- dual density polyurethane
- thermoplastic polyurethane

Moulding tools and equipment include one or more of the following:

- Allen keys
- soft-faced mallet
- spanners
- gloves
- punch
- apron
- tape

- shaping block

Checks include the following:

- pigment tanks are full and stirred
- heads are clear and greased
- mould release tanks are full
- electrostatic wire is clean
- nozzle caps are in good condition

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTFP2008B Perform moulding operations

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 MSTFP2008 Perform moulding operations

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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
- applying relevant standards
- checking machine settings and preparing moulding materials to meet production requirements
- operating and monitoring moulding machine involving defined procedures and methods for at least five (5) footwear items
- making minor adjustments as required to meet quality standards
- checking product samples against standards
- identifying and addressing minor product process and machine faults to meet specified requirements
- reporting major machine or product faults
- loading and unloading products according to workplace procedures
- completing records accurately and completely.

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 and guidelines for safe operation of moulding machine
- typical fault conditions and related fault-finding procedures
- machine maintenance and repair techniques
- technical specifications manuals
- signs of faulty performance and appropriate action to address faults
- typical moulding tools, equipment and materials
- quality standards and practices
- work health and safety (WHS) and environmental aspects of relevant moulding processes
- workplace procedures
- recording and documentation practices.

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 performing moulding operations, 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.
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