



Australian Government

MSTTX2006 Undertake carding operations

Release: 1

MSTTX2006 Undertake carding operations

Modification History

Release 1. Supersedes and is equivalent to LMTTX2019B Undertake carding operations

Application

This unit of competency covers the skills and knowledge required to undertake carding operations to process fibres for spinning operations or non-woven web forming operations.

The unit of competency applies to the preparation, operation, monitoring and adjusting of carding machines and equipment used to process fibres. Fibres may be natural or synthetic to be used in woven, knitted, tufted and non-woven products.

Work is conducted according to defined procedures. 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

Textile 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 | Prepare for carding | 2.1 | Check production specifications to identify requirements for carding |
| | | 2.2 | Receive fibres and set up for loading into feed sheet |
| | | 2.3 | Set carding machine for operation and clean area around machine during and on completion of setting and loading |
| | | 2.4 | Report non-conforming materials |
| | | | |
| 3 | Operate and monitor carding machine | 3.1 | Start and stop carding machine according to manufacturer requirements and monitor to ensure correct operation and workplace procedures |
| | | 3.2 | Monitor blending to ensure blending consistency and feed uniformity |
| | | 3.3 | Monitor carding operation to ensure correct feed rate and quality of web offtake |
| | | 3.4 | Sort waste and apply environmental requirements |
| | | 3.5 | Identify and correct minor faults, where necessary, to meet specified requirements, and report major machine faults |
| | | | |
| 4 | Complete carding operations | 4.1 | Check carded fibres against quality standards |
| | | 4.2 | Unload or remove carded fibres according to manufacturer specifications and workplace procedures |
| | | 4.3 | Send carded fibres for despatch or further processing. |
| | | 4.4 | Clean and maintain work environment according to workplace procedures |
| | | 4.5 | Complete production records and other documentation, as required |

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
 - PPE
 - 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

- Machines and equipment for carding include one or more of the following:**
- burr handling systems
 - air filtration equipment
 - carding machine
 - doffer waste system
 - blending systems
 - compressed air

- Waste includes one or more of the following:**
- processed burr
 - contaminants
 - processed sweepings
 - machine waste

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTTX2019B Undertake carding 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 MSTTX2006 Undertake carding 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 to meet production requirements
- operating and monitoring carding machine involving defined procedures and methods on at least two (2) occasions
- making minor adjustments
- recognising, rectifying and reporting machine or product faults or problems as required
- monitoring blending to ensure blending consistency and feed uniformity
- monitoring carding operation to ensure correct feed rate and quality of web off-take
- sorting waste and observing environmental requirements
- checking product samples against standards
- loading and unloading products according to workplace practices and production requirements
- checking carded fibres against quality standards
- unloading or removing carded fibres according to manufacturer specifications and workplace procedures
- sending carded fibres for despatch or further processing
- cleaning and maintaining work environment according to workplace procedures
- completing production records and other documentation, as required.

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 carding machine
- typical fault conditions and related fault finding procedures
- blending and carding processes
- air filtration and waste management systems
- machine maintenance and repair techniques
- technical specifications manuals

- quality standards and practices
- workplace procedures
- recording and reporting 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 carding 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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