



Australian Government

MSTTN2009 Apply surface coating to technical textiles

Release: 1

MSTTN2009 Apply surface coating to technical textiles

Modification History

Release 1. Supersedes and is equivalent to LMTTN2009B Apply surface coating to technical textiles

Application

This unit of competency covers the skills and knowledge required to apply surface coating to technical textiles. Technical textiles are textile products that have been manufactured for special technical performance and applications.

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

Technical textiles and non-wovens

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 surface coating process | 2.1 | Make appropriate checks to ensure that textile fabric is ready for surface coating process |
| | | 2.2 | Prepare work area according to WHS practices and workplace procedures |
| | | 2.3 | Obtain or prepare surface coating according to manufacturer instructions and specifications required for job |
| | | 2.4 | Report and record problems according to workplace procedures |
| 3 | Prepare technical textile for surface coating | 3.1 | Conduct appropriate tests on technical textile before application of surface coating, as required |
| | | 3.2 | Fix technical textile into position on machine or conveyor, as required |
| | | 3.3 | Check job or batch requirements |
| 4 | Operate and monitor surface coating machine | 4.1 | Load coating mix or transfer sheet into machine reservoir for pick-up by knife, coating roller, gravure roller, rotary screen, laminating or tie coat machine, where applicable |
| | | 4.2 | Set machine to correct heat, speed and thickness according to process and job requirements |
| | | 4.3 | Undertake and monitor coating process to ensure application is according to job requirements and manufacturer instructions |
| | | 4.4 | Remove coated technical textile from coating machine and conduct tests, as required |
| | | 4.5 | Direct coated technical textile to next operation |

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

Surface coating processes include one or more of the following:

- lick roll
- knife coating
- gravure
- rotary screen
- hot melt
- transfer coating

WHS practices

WHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit, and include one or more of the following:

- manual handling techniques
- SOPs
- PPE
- safe materials handling
- taking of rest breaks
- ergonomic arrangement of workplaces

- following marked walkways
- safe storage of equipment
- housekeeping
- reporting accidents and incidents
- other WHS practices relevant to the job and enterprise

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 MSTTN2009 Apply surface coating to technical textiles

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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 other reference material
- applying relevant standards
- safely setting up and operating technical textile surface coating machines and work area on at least two (2) occasions
- safely and accurately mixing and loading surface coating mixtures on at least two (2) occasions
- preparing and adjusting coating machine according to specifications required for work on at least two (2) occasions
- monitoring technical textile and machine during coating process to ensure safe and efficient operation on at least two (2) occasions
- consistently achieving quality and production output requirements
- identifying and responding to machine or process faults
- following job specifications and orders
- applying workplace procedures
- maintaining records.

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
- chemical handling
- surface coating processes and materials
- machine operations relevant to surface coating and workplace procedures
- process and machine faults
- work health and safety (WHS) practices
- quality 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 applying surface coatings to technical textiles, 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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