



Australian Government

Department of Education, Employment and Workplace Relations

LMTTN2009B Apply surface coating to technical textiles

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the skills and knowledge to apply surface coating to technical textiles.
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Application of the Unit

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The unit covers the skills involved in applying surface coating to technical textiles. Surface coating techniques covered by this unit include lick roll, knife coating, gravure, rotary screen, hot melt and transfer coating.

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

The application of this unit is according to OHS practices of the enterprise and workplace practices, which may include:

- requirements prescribed by legislation, awards, agreements and conditions of employment
- standard operating procedures
- 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

This unit requires the application of skills associated with planning and organising for the safe and efficient use of surface coating processes and technology. This unit also requires the ability to identify and communicate inconsistencies or other problems and conduct appropriate tests and checks. Workplace documentation will be used and completed as required.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisites

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Prepare for surface coating process	1.1 Appropriate checks are made to ensure that textile fabric is ready for surface coating process. 1.2 Work area is prepared according to <i>OHS practices</i>. 1.3 Surface coating is obtained or prepared according to manufacturer instructions and specifications required for job. 1.4 Problems are reported and recorded.
2 Prepare <i>technical textile</i> for surface coating	2.1 Appropriate tests are conducted if required on technical textile before application of surface coating. 2.2 Technical textile is fixed into position on machine or conveyor as required. 2.3 Job or batch requirements are checked.
3 Operate and monitor surface coating machine	3.1 Where applicable coating mix or transfer sheet is loaded into machine reservoir for pick-up by knife, coating roller, gravure roller, rotary screen, laminating or tie coat machine. 3.2 Machine is set to correct heat, speed and thickness according to process and job requirements. 3.3 Coating process is undertaken and monitored to ensure application is according to job requirements and manufacturer instructions. 3.4 Coated technical textile is removed from coating machine and tests conducted if required. 3.5 Coated technical textile is directed to next operation.

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Demonstrates knowledge of:

- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- recording and reporting practices

Demonstrates skills to:

- read, interpret and follow information on work specifications, standard operating procedures and work instructions, and other reference material
- maintain accurate records
- communicate within the workplace
- sequence operations
- meet specifications
- clarify and check task-related information
- carry out work according to OHS practices

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

Critical aspects of evidence	Demonstrates skills and knowledge to: • safely and accurately mix and load surface coating mixtures • safely set and operate technical textile surface coating machines • identify machine or process faults • follow job specifications and orders
Consistency in performance	Consistently applies skills and knowledge when: • organising work • completing tasks according to instructions • working systematically with attention to detail • identifying improvements and avoiding damage • using workplace practices • using OHS practices • recording and reporting accidents and incidents • assessing operational readiness of equipment • recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions
Resource implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Context for assessment	Assessment may occur on the job or in an appropriately simulated environment.
Interdependent assessment	This unit may be assessed independently or in combination with other relevant units.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the Performance Criteria, is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

Legislative/regulatory requirements All work must comply with relevant Federal and State or Territory legislative or regulatory requirements.

Surface coating process Surface coating process includes the following coating methods:

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

OHS practices OHS practices include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit, and may relate to:

- manual handling techniques
- standard operating procedures
- personal protective equipment
- safe materials handling
- taking of rest breaks
- ergonomic arrangement of workplaces
- following marked walkways
- safe storage of equipment
- housekeeping
- reporting accidents and incidents
- environmental practices

Technical textile Technical textiles are textile products that have been manufactured for special technical performance and applications. A clothing, carpet or furnishing textile product is generally not regarded as a technical textile unless a specific technical feature beyond what is normally found in clothing, carpet or furnishing has been added. An example would be special fire retardant clothing.

Unit Sector(s)

Sector Technical Textiles and Nonwovens