



Australian Government

Department of Education, Employment and Workplace Relations

LMTTN2001B Set up and operate a dry laid web forming machine

Revision Number: 1

LMTTN2001B Set up and operate a dry laid web forming machine

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the skills and knowledge to set up and operate dry laid web forming machines used to manufacture non-woven textiles.
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Application of the Unit

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The unit covers the skills needed for initial start-up and product changeovers of dry laid web forming machines, including machine settings, first-off runs, adjustments and instructions to operators.

Web bonding and web finishing are covered by units *LMTTN2004B Undertake web bonding processes* and *LMTTN2005B Undertake web conversion and finishing*.

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
- task 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 dry laid web forming machines. This unit also requires the ability to check the quality of products, identify and communicate inconsistencies or other problems and complete workplace documentation. Self management skills are applied to ensure workplace and quality standards are achieved.

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 Set up and load dry laid web forming machine	1.1 Specifications are checked to identify requirements for production. 1.2 Raw materials, containers and quantities are checked. 1.3 Machine settings are adjusted to meet product requirements. 1.4 Area around machine is cleaned during and on completion of setting and loading.
2 Operate and monitor dry laid web forming machine	2.1 Dry laid web forming machine is started and stopped according to manufacturer instructions and job requirements. 2.2 Machine operations are monitored to ensure safe and correct operation. 2.3 Waste is sorted. 2.4 Machine is cleaned when required. 2.5 Minor product process and machine faults are identified and corrected where necessary to meet specified requirements, and reported. 2.6 Major machine faults are reported. 2.7 Machine is operated according to OHS practices.
3 Check web quality	3.1 Formed web is checked against quality standards and production requirements. 3.2 Web faults and non-conformances are identified and rectified or reported.
4 Complete dry laid web forming operations	4.1 Dry laid web is despatched to next manufacturing or packing process. 4.2 Cleaning of area is completed to ensure work environment is maintained in a safe and productive manner. 4.3 Production records are accurately completed.

Required Skills and Knowledge

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

Demonstrates knowledge of the dry web forming process, including:

- fibre types, including:
- rayon and other cellulose
- nylon
- polyester
- polypropylene
- cotton
- wool
- glass
- bi-component
- fibre characteristics, including:
- absorbency
- abrasion resistance
- modulus
- web 'handle'
- moisture absorption
- chemical and temperature resistance
- melting point
- fibre measuring units, including decitex and denier and fibre diameter - equation
- fibre or filament crimp
- advantages of fibre opening and blending:
- component independent system
- guarantee a homogeneous mixture
- constant performance
- flexible operation
- high degree of automation
- working and stripping principles of carding
- different types of carded webs, such as:
- parallel laid web
- parallel laid web with spreading device
- parallel laid web with scrambling
- random laid web
- random laid web with scrambling
- layered and cross laid webs
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices

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

- recording and reporting practices

Demonstrates skills to:

- check machine safety equipment and report any faults
- prepare materials for web forming
- load and unload materials
- start and stop machines according to specifications
- monitor machine operations including machine production readings
- recognise, rectify and report machine faults or problems as required
- clean machines as required
- check machine maintenance records
- recognise fault conditions
- 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: • interpret production orders and schedules • set and check machine settings to meet production requirements • monitor web forming operations according to defined procedures and methods • make minor adjustments • check product samples against quality standards • load and unload products • complete records accurately and completely • apply workplace OHS practices in work operations
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.

Fibres may include

- fibre size - length 30-80 mm
- fibre size - 1.1-8.0 dtex (diameter)
- fibre types include:
- rayon and other cellulose
- nylon
- polyester
- polypropylene
- cotton
- wool
- glass
- bi-component
- fibres may be used as 100% or as blends

Dry laid web may include

web formed using any of the following techniques:

carded web - parallel laid

carded web - cross laid

carded web - random laid

air laid staple fibre web

high-loft webs

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

Unit Sector(s)

Sector Technical Textiles and Non-wovens