



Australian Government

Department of Education, Employment and Workplace Relations

LMTTN2005B Undertake web conversion and finishing

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge to undertake web conversion and finishing processes for non-woven textiles.

Application of the Unit

Application of the Unit

The unit covers the skills needed to convert bonded web into product ready for finishing and packing processes and to complete required finishing and packing processes.

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 application of web conversion and finishing processes. 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 Prepare for web conversion	1.1 Specifications are checked to identify requirements for production. 1.2 Web conversion and finishing process is selected according to product specification. 1.3 Set web guides and tensions for product according to specifications. 1.4 Machine controls are set to meet product requirements.
2 Undertake web conversion and finishing	2.1 Bonded web supply and speed is checked for conformance to specification. 2.2 Web conversion and finishing process is monitored and operational parameters are adjusted to meet product requirements. 2.3 Machine operations are monitored to ensure safe and correct operation according to OHS practices. 2.4 Web or cylinder alignment problems are identified and rectified. 2.5 Other minor product process and machine faults are identified and corrected where necessary to meet specified requirements and are reported. 2.6 Major machine faults are reported. 2.7 Machine is cleaned when required.
3 Check quality of finished and converted web	3.1 Finished and converted web is checked against quality standards and production requirements. 3.2 Faults and non-conformances are identified and rectified or reported.
4 Complete finishing process	4.1 Finished web or non-woven product is packed and labeled according to order and product requirement. 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:

- web conversion and finishing processes, including effect of process on web and desired performance of finished product
- safe handling requirements for chemicals
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- recording and reporting practices

Demonstrates skills to:

- check machine safety equipment and report any faults
- prepare bonded web forming for converted and finishing
- load and unload materials according to machine and workplace practices
- 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 • set web guides and tensions • monitor web conversion and finishing 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 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.

Web conversion and finishing process may include

- web cutting, slitting and re-reeling
- base web finishing - micro-crepeing
- base web finishing - coating
- base web finishing - extrusion coating
- base web finishing - flocking
- base web finishing - corona/plasma
- chemical finishing treatment
- coating of webs using closed and open systems
- chemical treatment such as:
 - fluoro-chemical treatment for aqueous liquid repellency
 - silicone treatment for aqueous liquid repellency
 - anti-microbial treatment
 - flame retardancy treatment
 - micro-encapsulation

Machine operations may include

- settings made using computer, mechanical and electronic controls

Web guides and tensions

- web guides may be mechanical, electronic or pneumatic
- tensions are set by mechanical, electronic or pneumatic means

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 Nonwovens