



Australian Government

MSTTN2005 Undertake web conversion and finishing

Release: 1

MSTTN2005 Undertake web conversion and finishing

Modification History

Release 1. Supersedes and is equivalent to LMTTN2005B Undertake web conversion and finishing

Application

This unit of competency covers the skills and knowledge required to undertake web conversion and finishing processes for non-woven textiles.

The unit of competency 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.

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

- | | | | |
|---|--|-----|---|
| 2 | Prepare for web conversion | 2.1 | Check specifications to identify requirements for production |
| | | 2.2 | Select web conversion and finishing process according to product specification |
| | | 2.3 | Set web guides and tensions for product according to specifications |
| | | 2.4 | Set machine controls to meet product requirements |
| 3 | Undertake web conversion and finishing | 3.1 | Check bonded web supply and speed for conformance to specification |
| | | 3.2 | Monitor web conversion and finishing process and adjust operational parameters to meet product requirements |
| | | 3.3 | Monitor machine operations to ensure safe and correct operation according to WHS practices |
| | | 3.4 | Identify and rectify web or cylinder alignment problems |
| | | 3.5 | Identify, correct or report other minor product process and machine faults, where necessary, to meet specified requirements |
| | | 3.6 | Clean machine when required and report major machine faults |
| 4 | Check quality and complete finished and converted web | 4.1 | Check finished and converted web against quality standards and production requirements |
| | | 4.2 | Identify, rectify or report faults and non-conformances |
| | | 4.3 | Pack and label finished web or non-woven product according to order and product requirement |
| | | 4.4 | Clean area to maintain a safe and productive work environment |
| | | 4.5 | Complete production records |

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
Web conversion and finishing processes include one or more of the following:	• 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 retardency treatment • micro-encapsulation

Machine operations include one or more of the following:

- computer
- mechanical
- electronic controls

Web guides and tensions include one or more of the following:

- mechanical
- electronic
- pneumatic

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

Release 1. Supersedes and is equivalent to LMTTN2005B Undertake web conversion and finishing

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 MSTTN2005 Undertake web conversion and finishing

Modification History

Release 1. Supersedes and is equivalent to LMTTN2005B Undertake web conversion and finishing

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
- interpreting production orders and schedules
- setting and checking machine settings to meet production requirements on at least two (2) occasions
- setting web guides and tensions on at least two (2) occasions
- monitoring web conversion and finishing operations according to defined procedures and methods on at least two (2) occasions
- making minor adjustments
- recognising, rectifying and reporting machine faults or problems, as required
- maintaining clean machines and work environment, as required
- checking product samples against quality standards
- loading and unloading products
- completing records accurately and completely
- applying workplace procedures
- applying work health and safety (WHS) practices in work operations.

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
- web conversion and finishing processes, including effect of process on web and desired performance of finished product
- web guides and tensions relevant to workplace procedures
- machine operations relevant to workplace procedures
- safe handling requirements for chemicals
- WHS practices, including hazard identification and control measures
- quality practices
- workplace practices

- 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 undertaking web conversion and finishing, 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.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>