



**Australian Government**

# **MSTTN2004 Undertake web bonding processes**

**Release: 1**

# MSTTN2004 Undertake web bonding processes

## Modification History

Release 1. Supersedes and is equivalent to LMTTN2004B Undertake web bonding processes

## Application

This unit of competency covers the skills and knowledge required to undertake web bonding processes.

The unit of competency applies to chemical, thermal, mechanical and latex bonding 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.

<b>1 Determine job requirements</b>	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 bonding**
  - 2.1    Check specifications to identify requirements for production
  - 2.2    Identify web bonding process, and where options exist, select correct web bonding process according to product requirements
  - 2.3    Check bonding raw material supply where appropriate
  - 2.4    Set machine controls to meet product requirements
  
- 3     **Undertake web bonding**
  - 3.1    Check formed web supply and speed conforms to specification
  - 3.2    Monitor web bonding process and adjust operational parameters to meet product requirements.
  - 3.3    Monitor machine operations to ensure safe and correct operation
  - 3.4    Identify, correct and report minor product, process and machine faults where necessary to meet specified requirements
  - 3.5    Operate machine according to WHS and workplace practices and report major machine faults
  
- 4     **Check quality and complete web bonding process**
  - 4.1    Check bonded web against quality standards and production requirements
  - 4.2    Identify, rectify or report bonded web faults and non-conformances
  - 4.3    Send bonded web for web conversion and finishing or next manufacturing or packing process
  - 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 bonding processes include one or more of the following:**

- chemical bonding:
  - solvent bonding
  - foam bonding
  - hydrogen bonding
  - print bonding
  - latex addition to formed web
  - inorganic binders
- thermal bonding (for fusible, bi-component and co-polyester fibres):
  - calender bonding
  - engraved calender bonding
  - air bonding
- mechanical bonding:

- needle punch
- stitchbond
- hydro-entanglement

**Machine operations include one or more of the following:**

- speed settings for web progression
- heat settings
- solution settings
- needle punch settings
- settings made using computer, mechanical and electronic controls

**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 LMTTN2004B Undertake web bonding processes

## Links

Companion Volume implementation guides are found in VETNet -

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