



Australian Government

MSTTN2011 Undertake fibre blending and feeding for non-woven technical production processes

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to LMTTN2011B Undertake fibre blending and feeding for non-woven technical production processes

Application

This unit of competency covers the skills and knowledge required to undertake fibre blending and feeding for non-woven technical production processes.

The unit of competency applies to the preparation and blending of natural or synthetic fibres for feeding into a carding machine. Fibres may be natural or synthetic and are used in a non-woven textile production process.

Work is conducted according to defined procedures.

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	Check and identify raw fibres	2.1 Check production specifications to identify fibres required for carding operation 2.2 Check raw fibres comply with fibre production specification 2.3 Carry out checks, as necessary, to determine compliance with production requirements 2.4 Report non-conforming or defective fibre batches
3	Blend fibres	3.1 Select and blend fibres according to production specification 3.2 Load additives, where required 3.3 Load fibres into carding machine correctly 3.4 Conduct and monitor blending to ensure blending consistency and feed uniformity, according to WHS practices 3.5 Sort waste according to workplace procedures
4	Complete records	4.1 Complete production records or other documentation

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

Fibre production specifications include one or more of the following:

- fibre types:
 - rayon
 - nylon
 - polyester
 - polypropylene
 - cotton
 - wool
 - cellulose
 - glass
- fibre characteristics:
 - absorbency
 - abrasion resistance
 - modulus
 - web 'handle'
 - moisture absorption
 - chemical and temperature resistance
 - size (diameter)
 - fineness (decitex or denier)
 - fibre crimp

Waste includes one or

- processed burr

more of the following:

- contaminants
- processed sweepings
- non-conforming fibre materials
- machine waste (e.g. grease and oil)

WHS practices

WHS practices 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
- environmental practices

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

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