



Australian Government

MSTTX5001 Determine textile finishing processes

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to LMTTX5001A Determine textile finishing processes

Application

This unit of competency covers the skills and knowledge required to determine appropriate textile finishing processes within a textile manufacturing environment.

The unit of competency applies to the selection of standard textile finishing processes within a textile manufacturing environment to ensure products and processes meet specifications, specified job requirements, and standards of quality and design. Finishing processes and procedures are documented using standard recording 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

MSTTX4001 Interpret and apply textile calculations and specifications

MSTTX4002 Understand and apply textile science

Competency Field

Textile production

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	Interpret finishing specifications	2.1 Interpret specifications applying to textile finishing process from data sheets, production schedules or process specifications 2.2 Determine type, quantity and quality of materials required for the textile finishing, and test, as required, to confirm material specifications 2.3 Identify and consider implications of specifications on process in determining process requirements 2.4 Clarify specifications as required using appropriate information resources
3	Determine procedures for textile finishing	3.1 Identify finishing process most appropriate to required outcomes 3.2 Select required equipment, tools and materials and evaluate for purpose 3.3 Use appropriate calculations to determine material requirements 3.4 Determine finishing procedures, formulas and relevant specifications, and document using standard procedures
4	Confirm finishing	4.1 Test and validate textile finishing procedures and formulas 4.2 Identify and document deviations from specifications and conduct further testing to determine variations required to procedures 4.3 Adjust finishing procedures and formulas, as required, to meet specifications

4.4 Document textile finishing procedures and communicate to appropriate personnel for future application

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
- PPE
- 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

Textile finishing processes include one or more of the following:

- colouration
- washing
- bleaching
- curing
- heating
- raising
- cropping
- decatizing

- milling
- proofing

Materials used in textile finishing include one or more of the following:

- dyes
- bleaches
- chemicals
- pastes

Calculations include one or more of the following:

- ratio
- mass or weight
- volume
- time
- dimensions

Specifications applying to textile finishing include one or more of the following:

- percentage
- volumes
- mass
- heating and cooling rates
- length and width

Resources and search techniques include one or more of the following:

- standard operating procedures
- safety procedures
- job lists
- manufacturer manuals
- specifications
- textile production patterns and machine settings
- Australian and international Standards
- trade journals
- quality system documentation
- customer requirements
- workplace and site procedures and manuals
- industry manuals
- codes of practice
- awards
- legislation
- plans
- diagrams
- log books
- hard copy or electronic data

- key personnel, supervisors, trainers and colleagues
- using index, table of contents, and numbering and classification systems
- computer database search or look-up, questioning and cross-referencing
- basic techniques to identify relevant information, including skimming and scanning, and identifying key words and ideas

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTTX5001A Determine textile finishing processes

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 MSTTX5001 Determine textile finishing processes

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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
- applying relevant standards
- interpreting specifications relevant to textile finishing from data sheets, production schedules or process specifications
- determining type, quantity and quality of materials required for the textile finishing, and testing, as required, to confirm material specifications
- determining finishing procedures, formulas and relevant specifications, and documenting using standard procedures, on at least two (2) occasions
- completing accurate textile calculations
- testing and validating textile finishing procedures and formulas
- identifying and documenting deviations from specifications and conducting further testing to determine variations required to procedures
- adjusting finishing procedures and formulas as required to meet specifications
- documenting textile finishing procedures and communicating to appropriate personnel for future application.

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
- textile industry terminology
- international specification standards
- textile, clothing and footwear (TCF) production processes
- TCF products and materials
- systems and formula used in textile calculations
- properties of materials
- finishing processes
- finishing equipment, tools and materials
- quality criteria

- quality practices
- workplace structures and communication channels
- workplace procedures
- practices for recording and reporting.

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 textile finishing processes, 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.

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