



Australian Government

MSTTX3001 Identify quality and types of textile fibres, yarns and fabrics

Release: 2

MSTTX3001 Identify quality and types of textile fibres, yarns and fabrics

Modification History

Release 2. Supersedes and is equivalent to MSTTX3001 Identify quality and types of textile fibres, yarns and fabrics (Release 1).

Pre-requisite unit, MSTGN2011 Identify fibres, fabrics and textiles used in the TCF industry, is **superseded by** MSTGN2013 Identify fibres, fabrics and textiles used in the TCF industry.

Release 1. Supersedes and is equivalent to LMTTX3001B Identify quality and types of textile fibres, yarns and fabrics.

Application

This unit of competency covers the skills and knowledge required to identify the quality and types of fibres, yarns and fabrics used and produced in textile production.

The unit of competency applies to a range of natural and synthetic materials which may be used for knitted, tufted, woven or non-woven products. It includes conducting simple tests to identify yarn and fabric types and properties. Testing under this unit is for production purposes only and does not cover skills required for specialised testing.

Work may be conducted in small to large scale enterprises and may involve individual and team related activities.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

MSTGN20 Identify fibres, fabrics and textiles used in the TCF
13 industry

Competency Field

Textile production

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the Performance criteria describe the performance needed to

essential outcomes.

demonstrate achievement of the element.

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|---|--|---|
| 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 to determine fibre, yarn and fabric performance | 2.1 Use identification methods to identify fibres, yarns and fabrics, and identify their physical and chemical properties |
| | | 2.2 Identify performance characteristics of various fibres, yarns and fabrics |
| | | 2.3 Identify common fibre and yarn faults and the problems they cause in fabric production or the finished product |
| | | 2.4 Use quality indicators to determine fibre, yarn and fabric quality, identify quality faults and take appropriate action |
| | | 2.5 Conduct performance testing of fibre, yarn and fabric in accordance with workplace procedures |
| | | |
| 3 | Determine uses, care and labelling requirements | 3.1 Distinguish performance characteristics and appropriate uses of fabrics |
| | | 3.2 Identify applicable fabric finishes and implications for care, handling and use |
| | | 3.3 Identify cleaning requirements |
| | | 3.4 Identify labelling requirements according to workplace procedures and Australian Standards |

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
- personal protective equipment (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

Identification methods include one or more of the following:

- visual inspection
- tactile analysis
- acetone
- burn test
- microscopy

Fabrics include one or more of the following:

- component fabrics used in making final textile products, for example, backing materials and linings or a final textile product
- knitted fabrics, including weft knits and warp knits
- woven fabrics, including plain, twill, satin, dobby and jacquard
- non-woven fabrics, including felts, nets, braids and

bonded

Quality indicators include three or more of the following:

- straightness of grain
- even/uneven yarn
- slippage
- length of fibres
- pilling
- fabric resilience
- workability
- wash testing
- shade
- tensile properties
- handling

Faults include one or more of the following:

- ends out
- weft faults
- tucking
- unlevel
- bad edges
- thick and thin yarn
- colour or design faults

Performance testing includes two or more of the following:

- light
- heat
- chemical reaction
- absorbency

Finishes include one or more of the following:

- crease resistance
- fire retardancy
- water proofing/resistance
- printing
- dyeing
- surface finishes
- lubricating
- waxing
- anti-static
- anti-pilling
- spot and stain resistant
- anti-slip

- mildew and rot proof finish
- permanent creasing or press
- shrink resistance
- mercerising
- moireing

Handling fabrics includes one or more of the following:

- cutting
- dyeing
- printing
- pressing
- lining
- assembling
- sewing
- packaging and storage

Production requirements include one or more of the following:

- sewing requirements, such as needle size and type, machine type and thread type
- binding, joining and fusing requirements
- lining and reinforcement
- seam types
- material form, such as yarn, top, piece and loose stock

Care and cleaning includes one or more of the following:

- dry cleaning
- washing
- drying
- ironing
- steam cleaning
- use of stain removers
- special requirements

Unit Mapping Information

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Release 1. Supersedes and is equivalent to LMTTX3001B Identify quality and types of textile fibres, yarns and fabrics.

Links

Companion Volume implementation guides are found in VETNet -

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