



Australian Government

MSTGN3021 Match fabrics to performance and handling requirements

Release: 1

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Modification History

Release 1. Unit code, Title and Application changed. Prerequisite removed. Merges content of MSTCL3001 and MSTTX3001 to reflect high level of duplication. Unit and Assessment Requirements significantly reworked to provide a workplace outcome and remove duplication, Foundation Skills field populated. Range of Conditions removed with relevant information moved to Knowledge Evidence. Assessment Requirements clarified with generic foundation skills statements moved to appropriate section and duplication with Performance Criteria removed. Supersedes and is not equivalent to MSTCL3001 Identify fabric performance and handling requirements or MSTTX3001 Identify quality and types of textile fibres, yarns and fabrics.

Application

This unit describes the skills and knowledge required to determine fabric performance and handling requirements and to match those requirements to suitable fabrics for the design or production of textile products. Textile products may be apparel or other non-wearable items.

This unit applies to individuals who use specialised knowledge of fabrics to complete work. They may be working independently or in accordance with established design and production processes.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

Nil

Competency Field

Generic

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Identify fabric performance and handling requirements	1.1 Identify fabric performance and handling requirements for textile product being produced 1.2 Identify and access sources of reliable information about fabrics

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.3 Identify sustainability considerations for fabric selection based on product purpose and use
2. Match fabrics and requirements	2.1 Select fabrics for consideration based on product purpose and use 2.2 Identify fabric properties that impact production and end use 2.3 Safely complete testing of fabrics and determine suitability based on outcomes 2.4 Identify and consider potential impacts of fabric finishes 2.5 Review fabric care and labelling requirements and their implications 2.6 Determine potential fabric faults and their effects on product quality 2.7 Select suitable fabric based on outcomes of matching process

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret unfamiliar information about fabrics

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

No equivalent unit.

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 MSTGN3021 Match fabrics to performance and handling requirements

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- match fabrics to the performance and handling requirements of six different textile products, and for each of the six textile products:
 - consider at least two different fabrics
 - research and document all of the following for each fabric:
 - performance properties
 - finishes
 - care requirements
 - labelling requirements
 - potential faults and implications for suitability
 - sustainability considerations
 - conduct and document the outcomes of at least one type of testing.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- types of information resources about fabric performance and handling
- key components of AS/NZS 1957:1998 Textiles - Care labelling
- end-to-end sustainability considerations for use of different fabrics
- fabric identification methods
- fabric qualities:
 - drape
 - firmness
 - gauge

- grain
- handle
- softness
- weight
- performance features of different fabrics and suitability for design, production and end use:
 - abrasion
 - absorbency
 - colour fastness
 - drape quality
 - durability
 - ease of care
 - heat sensitivity
 - shrink resistance
 - strength
 - stretch
 - wearability
- types of fabric performance testing:
 - for suitability of production processes
 - for end use
- fabric care and cleaning requirements and the implications for their use in textile products:
 - bleaching
 - dry cleaning
 - drying
 - hand washing
 - ironing
 - special requirements (e.g. hanging)
 - washing
- quality indicators for different fabric types and common faults encountered:
 - even or uneven weave
 - even print or dye colour
 - fabric resilience
 - length of fibres
 - pilling
 - print alignment or sizing
 - slippage
 - straight grain
 - workability
- types of fabric finishes and implications for handling:
 - colouration for structural or applied design such as printing or dyeing

- crease resistance
- fire retardancy
- surface finishes for aesthetics, stability or serviceability
- waterproofing or water resistance.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - fabric reference materials
 - varied fabrics for inspection and testing.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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