



Australian Government

Assessment Requirements for MSTGN5018 Research and analyse textile materials

Release: 1

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Modification History

Release 1. Merges MSTFD6009 and MSTTD6001. Unit Code, Title and Application changed. Elements and Performance Criteria simplified and restructured with Element 1 removed. Foundation Skills field populated. Range of Conditions removed. Assessment Requirements clarified with generic foundation skills statements moved to appropriate section and duplication with Performance Criteria removed. Supersedes and is not equivalent to MSTFD6009 Analyse fashion industry textiles to guide commercial development.

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:

- develop research objectives and a research plan based on business requirements
- source and analyse information about all of the following:
 - origins and characteristics of five different fibres, to include natural, semi-synthetic and synthetic
 - 15 different fabrics (including at least two ‘smart’ fabrics) in relation to their individual construction methods, qualities and performance characteristics
- establish and document the ethical, sustainability, design and production implications of findings about fibres and fabrics analysed above
- prepare a report that summarises key findings and make recommendations to meet business requirements.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- types of business requirements that inform objectives for research
- role and importance of detailed materials knowledge as the basis for sustainable textile product design and production
- sources of information on textile materials and textile products and how to establish source reliability
- local and global trends in the use of textile materials
- industry frameworks that support sustainable sourcing and use of textile materials
- different types of fibres, their sources, characteristics, care and end use, including:
 - natural fibres (both animal and plant)
 - semi-synthetic fibres
 - synthetic fibres
- construction processes and methods for different types of fabrics, including:

- knitted fabrics
- woven fabrics
- non-woven fabrics
- emerging 'smart' fabrics
- underlying fabrics and their purpose and application
- visual, tactile and textural and performance qualities of textiles and their suitability for different applications
- types of textiles finishes and their applications, both aesthetic and performance-based
- different types of fabric faults and their effects on product quality
- types of textile testing purposes and methods conducted in laboratory and/or workplace
- how to structure and format a research report and link research findings to business requirements.
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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:
 - information technology for research
 - textile materials.

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

Links

Companion Volume implementation guides are found in VETNet – -

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