



Australian Government

MSTAT5007 Design and produce experimental textiles

Release: 1

MSTAT5007 Design and produce experimental textiles

Modification History

Release 1. Element 1 removed. Changes to Performance Criteria to support the experimental nature of the unit. 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 equivalent to MSTTD5004 Design and produce experimental textiles.

Application

This unit describes the skills and knowledge required to apply experimental processes to create different effects on fibres, fabrics and other materials and produce original textiles in response to a design brief. The design and subsequent calculations and pattern development may be created manually or by using computer-aided design (CAD) programs.

This unit applies to textile designers.

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

Apparel and Textile Production

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. Develop ideas for exploration	1.1 Identify design parameters from brief 1.2 Generate and explore design ideas through research and experimentation 1.3 Select ideas for further exploration based on their potential to respond to the brief
2. Manipulate materials	2.1 Identify materials and manipulation techniques to achieve desired effects 2.2 Identify processes and materials required to achieve manipulations

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	2.3 Source materials and select and prepare tools and equipment required for production 2.4 Use manipulation techniques to achieve required design effects 2.5 Use experimentation to refine effects 2.6 Identify material or process faults and determine and address probable cause
3. Evaluate outcomes of manipulation	3.1 Assess manipulated textile sample against design concept 3.2 Analyse and evaluate design and manipulation techniques to identify opportunities for improvement

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 design brief and research information.

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

Unit Mapping Information

Supersedes and is equivalent to MSTTD5004 Design and produce experimental textiles.

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 MSTAT5007 Design and produce experimental textiles

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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:

- design and produce at least three different experimental textile samples, with work across the two samples to include use of:
 - two different materials
 - both 2D and 3D manipulation techniques
 - two different manipulation techniques.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- uses and performance characteristics of fibres, fabrics and other materials
- elements and principles of design
- effect of manipulation on textiles and materials
- tools and equipment associated with manipulating fabrics and other materials
- effects of manipulation on design
- potential parameters for design brief:
 - purpose
 - design specifications, such as colour, yarn type, size and patterns
 - budget
 - timeline
 - pattern or images
 - reproducibility
 - uniqueness
- information resources on fibres, fabrics and other materials
- evaluation criteria
- recording and reporting practices.
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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:
 - design brief
 - design communication tools
 - materials tools and equipment for relevant manipulation techniques.

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

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