



**Australian Government**

# **MSTTD6001 Research commercial development of textiles**

**Release: 1**

# MSTTD6001 Research commercial development of textiles

## Modification History

Release 1. Supersedes and is equivalent to LMTTD6001A Research commercial development of textiles

## Application

This unit of competency covers the skills and knowledge required to research and evaluate textiles for fashion, furnishings, accessories and exhibition, and make recommendations to guide the commercial development of textile products.

The unit of competency applies to activities associated with researching and evaluating quality, processing, finish, use, properties and performance of materials, partially finished and finished textile products. Findings should be used to make recommendations to guide commercial development of materials and products.

Work is performed in line with a broad plan or strategy. 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

Nil

## Competency Field

Textile design and development

## 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	<b>Determine job requirements</b>	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 research commercial development of textiles**
  - 2.1 Establish objectives for conducting research in line with business goals
  - 2.2 Establish criteria and parameters for research and develop research plan
  - 2.3 Conduct research into textiles
- 3 **Research textile products**
  - 3.1 Analyse products that incorporate textiles and their current uses in the marketplace
  - 3.2 Research performance characteristics of textile products and analyse to determine quality
  - 3.3 Use a range of routine and non-routine tests to gather data on product quality
  - 3.4 Identify factors influencing quality of textile products
  - 3.5 Identify and examine product faults and determine causes
  - 3.6 Research global and domestic implications for use of textile products
- 4 **Evaluate findings and make recommendations**
  - 4.1 Analyse research findings and prioritise according to their significance to research objectives and criteria
  - 4.2 Review methodology to identify any potential influences on findings
  - 4.3 Analyse findings to identify products with most potential for commercial development and further review
  - 4.4 Analyse features and benefits, and disadvantages or risks, of selected findings
  - 4.5 Prepare a report, including visual and graphical illustration to summarise aspects of research

- 4.6 Make recommendations and document how findings apply to commercial gain

## 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

**Research includes one or more of the following:**

- textile properties, qualities, aesthetic and performance characteristics
- primary uses of textiles
- new and emerging textiles and textile processing techniques
- global and domestic trends in using textiles
- routine and non-routine tests to gather data on textiles

**Textiles include one or more of the following:**

- natural fibres, such as cotton, wool, silk and linen
- synthetic fibres, such as:
  - polyamide and polyester

- acrylic
- lycra
- rayon
- acetate
- natural and synthetic single-yarn fabrics and blends, including:
  - knitted fabrics, such as weft knits and warp knits
  - woven fabrics, such as plain, twill, satin, dobby, jacquard and pile
  - non-woven fabrics, such as felts, nets, braids, bonded and composite
  - emerging smart fabrics
  - raw materials
  - new and emerging textiles
  - yarn

**Routine tests include one or more of the following:**

- visual checking
- colour matching
- weighing and height
- weight and thickness measuring
- moisture measuring
- measuring rubbing fastness
- stretch
- wear
- cracking
- colour
- gloss
- softness
- handle
- texture
- light and colour fastness
- heat fastness
- tensile characteristics
- flexibility

**Non-routine tests include the following:**

- tests performed in a laboratory environment to laboratory level standards

## Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTTD6001A Research commercial development of textiles

## Links

Companion Volume implementation guides are found in VETNet -

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