



Australian Government

MSTAT5006 Design and produce knitted textile products

Release: 1

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Modification History

Release 1. Unit Code and Application changed. Prerequisite unit removed. 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 MSTTD5001 Design and produce knitted textile products.

Updated 26/6/2023 to correct that unit is not equivalent to MSTTD5001.

Application

This unit describes the skills and knowledge required to develop designs and produce knitted textile products to meet a specified design brief. It applies to knitted products such as garments, furnishing items, accessories or fabrics. Note that this unit does not address fully fashioned knitted products.

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 design for knitted textile products	1.1 Identify design parameters from brief 1.2 Develop design concept and colour palette that responds to the brief 1.3 Select and use communication tools to present knit design 1.4 Collaborate with other members of the design and development team and exchange ideas about potential concepts and modifications 1.5 Create pattern for knitted product that meets design requirements

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
2. Produce knitted products	2.1 Plan production sequence to meet design requirements 2.2 Source and prepare materials and equipment required for production 2.3 Check yarns to be knitted against quality standards 2.4 Use knitting techniques to create samples that meet design specifications and quality standards 2.5 Refine and/or modify design and production details based on evaluation of samples produced 2.6 Produce final produce and confirm that it meets quality standards
3. Evaluate design and production processes	3.1 Assess final products against design brief and technical specifications 3.2 Identify opportunities for improvement in design and production processes 3.3 Document process and improvements for inclusion in future work

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 specifications
- Writing skills to document processes in workplace formats
- Oral communication skills to liaise with others about design requirements

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

Unit Mapping Information

Supersedes and is not equivalent to MSTTD5001 Design and produce knitted textile products.

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 MSTAT5006 Design and produce knitted textile products

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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:

- create designs for at least two knitted textile products that respond to all of the following aspects of a design brief:
 - target market
 - material and/or style specifications
 - budget and cost point
 - production parameters and constraints
 - quality standards
 - sustainability and circularity requirements
 - communication and reporting requirements
- plan production of the two designs, including:
 - developing knit pattern
 - completing specification sheet to guide production
 - completing calculations to determine material and yarn quantities
 - selecting and preparing required materials, tools and equipment
- produce the two designs in accordance with specifications.
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Knowledge Evidence

- sources of design inspiration for knitted products
- elements and principles of knitting design
- the process for exploring and refining design ideas
- information resources on fibres and fabrics
- types and styles of knitted fabrics
- yarn characteristics and their impact on design and production
- technical aspects of knitted textile production, including:

- tools and equipment and their simple maintenance techniques, including:
 - knitting machines
 - punch card
 - blocking board
 - double bed colour changer
 - sewing machine
 - overlocker
 - garter bar and deco
 - computer cards
- patterns and their variations
- cut and sew techniques
- row knitting
- punch card lace
- typical fault conditions in knitted products and how to rectify these, including:
 - holes
 - foreign matter
 - creasing
 - lines
 - runs
- specification sheets and their inclusions for knitted products
- design communication tools
- strategies to evaluate design and production processes
- quality practices for knitted products
- 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 briefs
 - design communication tools
 - materials tools and equipment for relevant techniques.

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

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