



Australian Government

MSTTF3010 Produce digital patterns for 2D manufactured textile products

Release: 1

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Modification History

Release 1. Unit code, Title and Application changed. Title changed for clarity. Elements and Performance Criteria restructured and simplified with Elements 1 and 2 combined. 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 equivalent to MSTTF2007 Produce patterns for 2D products.

Application

This unit describes the skills and knowledge required to use computer hardware and software to develop 2D patterns for the production of complex shapes in manufactured textile products. It requires the ability to create drawings, complete computerised cutting of shapes, use a plotting table, and calculate material requirements and costing.

This unit applies to individuals working in accordance with pre-determined specifications and established procedures.

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

Competency Field

Textile fabrication

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. Prepare to produce 2D patterns	1.1 Read and interpret preliminary drawings and other information that describes job specifications 1.2 Determine any missing dimensions or other unknown features of the proposed product through consultation with others and take action to obtain required details 1.3 Identify appropriate computer applications and enter required information or transfer from other sources to initiate design or production processes
2. Mark out and cut out	2.1 Construct 2D drawings based on information using appropriate

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shapes	software applications in accordance with their operating requirements 2.2 Make appropriate adjustment for shrinkage and other required allowances 2.3 Mark out and cut shapes based on job information using a plotting table and appropriate features of software applications 2.4 Check finished work is accurate and conforms with specifications
3. Perform calculations	3.1 Use software applications to make accurate calculations for materials and product costings 3.2 Save data, drawings and other outputs using established workplace file and documentation formats
4. Save document and communicate data	4.1 Store other work-related information in accordance with workplace procedures 4.2 Pass on data and associated information to personnel responsible for further action 4.3 Follow procedures for exiting applications and computer shutdown

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 familiar workplace procedures and detailed product and customer information
- Numeracy skills to create and manipulate numerical data in software applications
- Technology skills to navigate digital devices and use keyboard skills.

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

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSTTF2007 Produce patterns for 2D 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 MSTTF3010 Produce digital patterns for 2D manufactured 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:

- operate computer and relevant software applications and complete the following for at least two manufactured textile products:
 - construct detailed 2D drawings which reflect product requirements
 - perform material and product costing calculations based on the drawings.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- products and services offered by the workplace
- product construction processes
- basic principles and practices of engineering drawing
- the creation of digital 2D patterns:
 - types of detailed information required to create patterns
 - computer hardware requirements
 - software packages and their operating features (based on those used in the workplace)
 - computer or plotter interfaces
 - 2D drawing and calculation processes
 - mathematical processes and formulae, including for area and volume
 - basic aspects of geometry and geometrical shapes
 - file and documentation formats
- workplace procedures for communicating and storing information.

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 on product requirements
 - computer hardware and software
 - workplace procedures.

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

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