



Australian Government

MSTTF3009 Create drawings for manufactured textile products

Release: 1

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Modification History

Release 1. Unit code, Title and Application changed. Revised unit merges MSTTF2005 and MSTTF2006. Title changed to better reflect content. Elements and Performance Criteria restructured and simplified. 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 not equivalent to MSTTF2005 Translate information into measurements or diagrams and MSTTF2006 Measure and scale geometric shapes.

Application

This unit describes the skills and knowledge required to translate product, customer and site information into detailed drawings for costing and production purposes.

This unit applies individuals working in accordance with established procedures, using discretion, judgement and problem solving to review and manipulate information from varied sources.

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. Gather information	1.1 Review existing information about site and product requirements and identify additional information needs 1.2 Seek required additional information from relevant people 1.3 Locate and interpret technical information about required products, materials, equipment and operating features
2. Interpret information and obtain dimensions	2.1 Review existing measurements and use scaling techniques to obtain dimensions needed for production 2.2 Accurately calculate and record surface areas and angles 2.3 Identify and determine geometric shapes, establish positions of clear

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	panels and record information
3. Identify components, products and services	3.1 Develop concept drawing of completed product or service based on information provided 3.2 Determine required accessories, attachments and other components from information provided 3.3 Determine anchor points, and types and sizes of openings 3.4 Identify potential difficulties or hazards associated with product manufacture or installation 3.5 Identify environmental and regulatory features which may affect the product or service to be provided
4. Define detailed customer requirements in graphic form	4.1 Accurately transfer dimensions and angles on to the sketch or diagram 4.2 Incorporate clear and accurate details of all required product features 4.3 Calculate and incorporate dimensional allowances for cutting, rolled edges, joins and reinforcements 4.4 Make provision for seams, joins and overlaps and confirm accuracy of all dimensions and angles 4.5 Incorporate or create supporting information about specific environmental, regulatory or operational requirements
5. Finalise information	5.1 Review and confirm accuracy and completeness of all graphic information prepared and prepare final information 5.2 Communicate information to client or work colleagues responsible for further action based on job requirements

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 workplace documentation and diverse and detailed technical product and site information
- Numeracy skills to take accurate measurements, and make calculations involving addition, subtraction, multiplication, division, area, mass, perimeter, volume, scales and ratios.

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

Unit Mapping Information

No equivalent unit.

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 MSTTF3009 Create drawings for 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:

- interpret customer, site and product information and develop the following using manual techniques or computer-aided design (CAD) programs:
 - concept drawings for at least three products
 - accurate and detailed final drawings and diagrams for at least two products.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- for manufactured textile products:
 - general operating principles of commonly-available products and equipment
 - common types of materials used and their applications and limitations
 - production process
 - common types of strengthening and fastenings
 - existence of environmental and regulatory requirements for manufacture and installation
- basic principles and practices of engineering drawing
- scope of information needed to create drawings
- key inclusions for drawings, including details, positioning and measurements for:
 - openings, fittings or inserts
 - attachments that act as supports, including ropes, struts and retractors
- supporting information to be included either in or with detailed drawings
- mathematical and measuring processes used to translate information from customer information or site visit to detailed drawings:
 - scaling

- processes and formulae for area and volume
- plane geometry and plane geometrical shapes.

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:
 - customer, site and product information
 - drawing equipment (manual or computerised).

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

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