



Australian Government

MSTTF3013 Construct manufactured textile products

Release: 1

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Modification History

Release 1. Unit code, Title and Application changed. Title changed to more clearly reflect content. Installation and fitting element removed as this is covered in another unit. Content introduced to more explicitly define skills and knowledge for the lay out, marking and cutting stage of the production process. Elements and Performance Criteria restructured and simplified with Element 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 not equivalent to MSTTF2011 Cut and shape canvas or sail materials, MSTTF2010 Lay out and mark out canvas or sail materials, or MSTTF3007 Manufacture textile structures.

Application

This unit describes the skills and knowledge required to plan the fabrication process, mark out and cut materials and fabricate textile products using methods such as sewing, welding or gluing. Textile products may be vehicle coverings, shade sails, awnings, marine canopies or blinds. They could be standard products or custom-made.

This unit applies to individuals working in accordance with pre-determined specifications and established procedures. They use discretion and judgement to plan and select processes to meet work outcomes.

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. Set up and plan job sequence	1.1 Identify job requirements from work documentation 1.2 Identify and comply with work health and safety requirements 1.3 Plan task sequence and estimate time required to complete operations 1.4 Determine materials, hardware and attachments required and calculate required quantities

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.5 Determine and prepare appropriate workspace to conduct production process 1.6 Identify and set up required tooling and equipment in accordance with workplace procedures
2. Lay out and mark materials	2.1 Lay out material according to requirements and anchor to prevent movement using appropriate devices and safe work practices 2.2 Place required templates into correct positions 2.3 Mark out required shapes and features in accordance with specifications 2.4 Make allowances for seams, joins, reinforced edges and other design features 2.5 Plot and mark positions of openings, inserts, gussets, reinforcing, attachments and other components in accordance with specifications
3. Cut materials	3.1 Connect electric tools to power and use safely to cut materials and form shapes in accordance with specifications 3.2 Manipulate materials safely on cutting surface and separate product from waste material 3.3 Remove finished panels and fold with correct sequence of folds to suit further processing 3.4 Remove waste materials and separate for recycling or reuse in accordance with workplace procedures 3.5 Seek assistance to move finished products and waste material in accordance with safe manual handling requirements
4. Fabricate product	4.1 Select and operate equipment in accordance with manufacturer instructions and workplace procedures 4.2 Use techniques to fabricate product based on specifications 4.3 Fit required attachments and accessories in accordance with specifications 4.4 Complete work systematically to achieve required detail and to minimise damage to goods and equipment
5. Check quality and finalise work	5.1 Inspect completed work, confirm that it meets the required standard and rectify any deficiencies 5.2 Label or tag completed products and complete production documentation in accordance with workplace procedures

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	5.3 Clean work area and perform routine equipment maintenance in accordance with workplace requirements and manufacturer specifications

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 design documentation
- Writing skills to communicate factual information in familiar workplace documents
- 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 MSTTF3013 Construct 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:

- construct at least two new or replacement manufactured textile products to meet job specifications and workplace quality standards, with work to include at least three types of hardware or accessories across the two products.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- safe work practices and procedures for fabrication work, including:
 - use of personal protective equipment (PPE)
 - hazard identification and control measures
 - manual handling techniques that support safe work practice
- key requirements of Australian Standards for the products being constructed
- for manufactured textile products:
 - different types of products and their associated production processes and equipment requirements:
 - lay out and marking
 - cutting
 - fabrication and variations such as sewing, welding or gluing
 - adding of hardware – attachments, reinforcements
 - quality inspection process and techniques
 - characteristics, uses and limitations of fabrics commonly used
 - characteristics, uses and limitations of commonly-used hardware, attachments and accessories

- fault identification and methods of repair
- measuring devices and techniques
- mathematical processes, including those related to working with geometry and geometrical shapes
- basic principles and practices of engineering drawing
- workplace procedures for recording and reporting of 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:
 - work documentation
 - textile materials and required hardware
 - tools and equipment
 - workplace procedures.

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

Links

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