



Australian Government

MSTTF2011 Cut and shape canvas or sail materials

Release: 1

MSTTF2011 Cut and shape canvas or sail materials

Modification History

Release 1. Supersedes and is equivalent to LMTTF2011A Cut and shape canvas or sail materials

Application

This unit of competency covers the skills and knowledge required to manually cut and shape fibrous materials used in canvas product and sail construction.

The unit of competency applies to cutting a range of materials, including canvas, PVC and clear plastic, into single piece shapes with straight or simple curved sides, such as for shorteners and lugs. Work may be conducted in a variety of environments, including operational indoor and outdoor workplaces.

Work may be conducted in small to large scale enterprises and may involve individual and team activities. Work is performed within defined procedures under direct supervision.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Textile fabrication

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 Determine job requirements

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| 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 |

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| | | 1.4 | Identify job requirements from specifications, drawings, job sheets or work instructions |
| 2 | Prepare to cut and shape materials | 2.1 | Read and interpret workplace procedures and instructions |
| | | 2.2 | Prepare to perform work in accordance with defined procedures and methods either individually or in a team environment |
| | | 2.3 | Identify statutory requirements, workplace insurance requirements, WHS practices, manual handling procedures and relevant health regulations relevant to the operation |
| 3 | Cut and shape material | 3.1 | Connect electric tools to power and use safely |
| | | 3.2 | Use shears, trimmers, rotary cutting devices and dies to cut materials and form complex shapes in material |
| | | 3.3 | Manipulate materials safely on cutting table or floor and separate product from waste material |
| | | 3.4 | Remove finished panels and fold with correct sequence of folds to suit sewing stage, and store neatly for further processing |
| | | 3.5 | Remove waste materials and separate for recycling or reuse |
| | | 3.6 | Seek assistance to move finished products and waste material, if necessary |
| 4 | Check quality and finalise work | 4.1 | Inspect completed work to check that it meets the required standard |
| | | 4.2 | Label or tag completed panels with job number, client, or other identification and complete any necessary documentation in accordance with workplace procedures |
| | | 4.3 | Clean work area and perform normal basic maintenance of cutting surface and cutting equipment, in accordance with workplace requirements and manufacturer |

specifications

- 4.4 Notify supervisor of any abnormal conditions requiring maintenance or repair

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
- 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

Australian Standards include:

- the relevant industry or Australian Standards that are current at the time this unit is being undertaken

Materials include the following:

- fibres and yarns used in canvas and sail making
- ropes
- dacron, nylon and composite sail cloths

WHS practices

WHS practices include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit, and include one or more of the

following:

- manual handling techniques
- SOPs
- PPE
- safe materials handling
- taking of rest breaks
- ergonomic arrangement of workplaces
- following marked walkways
- safe storage of equipment
- housekeeping
- reporting accidents and incidents
- environmental practices

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTTF2011A Cut and shape canvas or sail materials

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 MSTTF2011 Cut and shape canvas or sail materials

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria, and include:

- reading and following work instructions, standard operating procedures (SOPs), safe work practices and other reference material
- applying relevant standards
- complying with all relevant safety requirements, including safe use of cutting and shaping equipment and associated hand and power tools
- interpreting work orders
- interpreting equipment and materials specifications and instructions needed for the cutting and shaping process
- preparing material to be cut and shaped and setting up cutting equipment according to workplace procedures
- performing all required cutting and shaping processes in appropriate sequence to quality standards for a variety of materials and sizes, on at least three (3) occasions
- performing basic operator maintenance of cutting equipment
- handling and disposing of waste according to environmental requirements
- performing normal operator maintenance of work area to enable work to be conducted safely and efficiently
- labelling completed panels, and documenting and communicating work-related information according to workplace procedures.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- relevant Australian Standards
- hazards associated with cutting equipment used in cutting and shaping
- work piece construction principles and methods
- common materials used in the canvas and sail industry, and their cutting characteristics
- the range of cutting and shaping equipment, hand tools and power tools used in cutting and shaping processes and their appropriateness for particular applications
- operating principles of cutting and shaping equipment
- relevant quality standards for products of the cutting and shaping process

- standard industry practice for storage and safe disposal of materials used in cutting and shaping processes
- power sources, such as single phase, three phase and weather-protected outlets
- electrical isolation procedures for electrically powered cutting and shaping equipment
- work health and safety (WHS) and environmental requirements of relevant industry and workplace procedures
- general housekeeping policies and procedures
- WHS practices, including hazard identification and control measures
- quality practices
- workplace procedures
- recording and reporting practices.

Assessment Conditions

- Assessors must:
 - satisfy the assessor competency requirements that are in place at the time of the assessment, as set by the VET regulator
 - have vocational competency in cutting and shaping canvas or sail materials, at least to the level being assessed, with relevant industry knowledge and experience.
- Assessment should occur in operational workplace situations. Where this is not possible, or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.

Links

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