



**Australian Government**

# **MSTTF2010 Lay out and mark out canvas or sail materials**

**Release: 1**

# MSTTF2010 Lay out and mark out canvas or sail materials

## Modification History

Release 1. Supersedes and is equivalent to LMTTF2010A Lay out and mark out canvas or sail materials

## Application

This unit of competency covers the skills and knowledge required to lay out and mark out materials for the manufacture of canvas or sail products.

Work may involve interaction with other people in the workplace, including supervisors and production personnel. Work may be conducted in operational indoor or 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.

- |                                     |  |
|-------------------------------------|--|
| <b>1 Determine job requirements</b> | 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              |
|                                     | 1.4 Identify job requirements from specifications, drawings, job sheets or work instructions |

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|---|---|--|
| 2 | <b>Prepare for laying out and marking out processes</b> | 2.1 Analyse specifications, drawings, sketches or diagrams to determine task requirements                                    |
|   |   | 2.2 Determine amount of floor or table space required to lay out material  |
|   |   | 2.3 Select and set up equipment needed for laying and marking out  |
|   |   | 2.4 Determine and sequence steps in laying and marking out processes for maximum productivity                                |
|   |   | 2.5 Ensure there is adequate lighting for the laying and marking out processes   |
|   |   | 2.6 Apply workplace procedures and instructions  |
| 3 | <b>Lay out material</b>                                 | 3.1 Remove obstructions and debris from around work area, and clean work table or work surface                               |
|   |   | 3.2 Move material to the work area and spread out onto the work table or work surface  |
|   |   | 3.3 Layer material according to requirements and anchor to prevent movement using appropriate devices and WHS work practices |
|   |   | 3.4 Place templates in position, if used   |
| 4 | <b>Mark out required shapes and features</b>            | 4.1 Interpret dimensions and other relevant specifications and establish datum point   |
|   |   | 4.2 Plot and mark out required shapes using manual or electronic processes to maximise use of material and minimise waste    |
|   |   | 4.3 Make allowances for seams, joins, reinforced edges and other design features   |
|   |   | 4.4 Plot and mark positions of openings, inserts, gussets, reinforcing, attachments and other components                     |

- 5      **Use plotting table**
- 5.1      Check plotting table vacuum to ensure it reaches specified value
  - 5.2      Lay out material on table and check to ensure it is free of creases, folds or other conditions that would prevent it lying flat
  - 5.3      Check plotter slide for smooth travel
  - 5.4      Initiate appropriate software program and load or key in data required by software program
  - 5.5      Perform plotting processes and apply WHS practices
  - 5.6      Release vacuum when plotting process is complete, and complete relevant documentation

## 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 one or more of 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 LMTTF2010A Lay out and mark out 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>