



**Australian Government**

# **MSTTF2007 Produce patterns for 2-D products**

**Release: 1**

## MSTTF2007 Produce patterns for 2-D products

### Modification History

Release 1. Supersedes and is equivalent to LMTTF2007A Produce patterns for 2D products

### Application

This unit of competency covers the skills and knowledge required to use a computer to develop 2-D patterns for the production of complex shapes in sails and canvas products, and to perform work-related calculations.

The unit of competency applies to the computerised development of 2-D drawings, computerised cutting of shapes using a plotting table, and calculation of material requirements and costing.

Work may be conducted in operational indoor workplaces using computers, plotters and associated software applications, including spreadsheets and computer-aided design (CAD).

This unit may require the interaction with customers, individuals delegated by the customer, and other personnel from the operator's workplace.

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	<b>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
- 2 **Prepare to produce 2-D patterns**
  - 2.1 Read and interpret preliminary drawings, sketches or diagrams provided by customer or developed by the enterprise
  - 2.2 Determine missing dimensions or other unknown features of the proposed product through consultation with customer or enterprise personnel
  - 2.3 Read, interpret and apply workplace procedures and instructions
  - 2.4 Identify appropriate computer applications and key in required information or transfer from other sources to initiate design or production processes
- 3 **Mark out and cut out shapes**
  - 3.1 Construct 2-D drawings based on customer information, using appropriate software applications
  - 3.2 Make appropriate adjustment for shrinkage and other allowances, as required
  - 3.3 Mark out and cut shapes, such as 2-D component shapes, based on customer or workplace information, and cut out using a plotting table and appropriate software applications
  - 3.4 Check finished work is accurate and conforms with specifications
- 4 **Perform calculations**
  - 4.1 Use spreadsheets or other appropriate software applications to perform simple materials calculations, financial tasks and costing
  - 4.2 Develop and apply spreadsheets
  - 4.3 Save data, drawings and other outputs electronically and in hard copy form using established workplace file and

documentation formats

- |   |  |     |   |
|---|--|-----|---|
| 5 | <b>Save, document and communicate data</b> | 5.1 | Store other work-related information in accordance with established workplace procedures                    |
|   |  | 5.2 | Pass on data and associated information to personnel responsible for further action within the organisation |
|   |  | 5.3 | Exit software applications and close down and switch off computer   |

## 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 includes:**

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

**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**

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**Links**

Companion Volume implementation guides are found in VETNet -

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