



Australian Government

MSTFD4011 Cut fabrics for prototype designs

Release: 1

MSTFD4011 Cut fabrics for prototype designs

Modification History

Release 1. Supersedes and is equivalent to LMTFD4011B Cut fabrics for prototype designs

Application

This unit of competency covers the skills and knowledge to lay up, make marker and cut work for sample designs where only a couple of garments would be cut out at a time, as required by the designer to test design or pattern.

The unit of competency applies to situations where single garments or only a couple of layers of fabric may be cut. The marker may be developed directly on the fabric lay or planned separately and applied. Cutting tools and equipment would include dress maker's shears, electric cutting tools and rotary cutters.

Work may be conducted in small to large scale enterprises and may involve individual and team activities.

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

Pre-requisite Unit

Nil

Competency Field

Fashion design and technology

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

- 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 cut fabrics for prototype design	2.1	Prepare work space and ensure all tools and equipment are clean and serviced according to manufacturer instructions
		2.2	Prepare cutting table to suit correct lay length and set-up, lay-up and marking equipment
		2.3	Check fabric width and quality with laying-up instructions
		2.4	Lay up fabric and adjust tension to match fabric performance
		2.5	Inspect fabric for faults and cut out faults using splicing (overlap joining) or other appropriate repair techniques
3	Cut fabrics for design prototypes	3.1	Interpret cutting order for marking requirements and collect pattern pieces
		3.2	Check pattern pieces and manipulate for most efficient fabric use
		3.3	Draw up lay marker manually or by computer and prepare laying-up instructions according to order requirements
		3.4	Check marker against order requirements and copy marker manually or by computer
		3.5	Place marker on lay, check alignments and adjust, as required
		3.6	Use cutting equipment to cut lay according to operating requirements
4	Review and finalise work	4.1	Check cut fabric and assess quality of the product and equipment performance
		4.2	Direct cut work to next operation
		4.3	Clean work area and prepare for next job

4.4 Store master copy of lay marker in filing drawer or 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
- standard operating procedures
- SOPs
- 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

Cutting equipment includes one or more of the following:

- dressmaker's shears
- electric rotary and upright cutters
- cutting mats

Fabrics include one or more of the following:

- woven fabrics
- knitted fabrics
- fabrics with a variety of finishes

Manipulate includes one or more of the following:

- positioned manually on paper
- by computer

Assess quality includes one or more of the following:

- inspecting fabric, tools and equipment to ensure optimum performance
- inspecting cut work, identify any faults
- taking appropriate action to ensure cut pieces meet quality standards
- taking preventive action to avoid any recurrence of defective pieces and record
- checking performance of cutting equipment regularly for signs of faulty operation, and taking appropriate action

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTFD4011B Cut fabrics for prototype designs

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 MSTFD4011 Cut fabrics for prototype designs

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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) and safe work practices
- applying relevant standards
- checking work against work specification or cutting order, and workplace practices and setting up equipment
- making markers involving patterns, fabrics and lays using manual or computer techniques
- preparing cutting table and work before commencing cutting operations
- using, lay-up, marking and cutting tools and equipment to cut at least two (2) different fabrics to meet required specifications
- checking cut fabric and assessing quality of the product and equipment performance
- responding appropriately to imperfections or faults
- storing master copy of lay marker in filing drawer or computer.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- Australian Standards for patterns and garment construction
- patternmaking principles and procedures
- lay-up and marking equipment:
 - computers and required software
 - patterns
 - fabric
 - marker card or paper
 - weights
 - clamps
- computer operations involved in marker making, copying and storage
- marking requirements:
 - fabric type
 - width
 - quantity

- garment sizes
- pattern identification
- fabric characteristics and prototype faults
- quality standards and fabric/garment handling procedures
- maintaining accurate records

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 fabrics for prototype designs, 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.

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