



Australian Government

MSTFD4010 Create pattern to meet design specifications applying advanced patternmaking principles

Release: 1

MSTFD4010 Create pattern to meet design specifications applying advanced patternmaking principles

Modification History

Release 1. Supersedes and is equivalent to LMTFD4010B Create pattern to meet design specifications applying advanced pattern-making principles

Application

The unit of competency covers the skills and knowledge required to create a pattern from an existing block, using advanced patternmaking principles, including contouring, square blocking and pivoting.

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

MSTCL3009 Develop patterns from a block using basic patternmaking principles

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

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|---|--|-----|---|
| | | 1.4 | Identify job requirements from specifications, drawings, job sheets or work instructions |
| 2 | Prepare to create pattern to meet design specifications | 2.1 | Select and prepare patternmaking tools, equipment, additional materials, if required, and workstation |
| | | 2.2 | Interpret and clarify design drawings and specifications, and identify design lines and style features |
| | | 2.3 | Clarify design requirements |
| | | 2.4 | Determine ease allowance and obtain details of base size |
| 3 | Create pattern | 3.1 | Select appropriate block to develop pattern and retrieve from storage system |
| | | 3.2 | Apply advanced patternmaking principles to develop pattern from existing block to specified design |
| | | 3.3 | Document methods and formulas used |
| | | 3.4 | Check pattern pieces, label and complete markings |
| 4 | Check and finalise pattern for production | 4.1 | Test toile or garment segments and assess against design specifications |
| | | 4.2 | Make any necessary alterations to finalise pattern and check it is accurate, complete and complies with design specifications |
| | | 4.3 | Select sizing system for pattern and base size |
| | | 4.4 | Prepare spreadsheet and grade table of full size range with essential measurements |
| | | 4.5 | Complete pattern specification sheets with trade drawings, attach to patterns for storage and file appropriately |
| | | 4.6 | Prepare work order for sizing labels as required |

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

Advanced patternmaking principles include the following:

- pivoting
- square blocking
- contouring
- advanced dart manipulation

Garments include one or more of the following:

- skirts
- trousers/pants
- shirts/blouses
- dresses
- coats
- lingerie

Methods and formulas

- deviations from standard patterns

include one or more of the following:

- sources of pattern components
- pattern derivation methods and formulas
- block construction methods and formulas
- application of current industry practice

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTFD4010B Create pattern to meet design specifications applying advanced pattern-making principles

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 MSTFD4010 Create pattern to meet design specifications applying advanced patternmaking principles

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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
- interpreting and clarifying design drawings and specifications and selecting appropriate block to develop pattern
- applying relevant industry standards for pattern and garment construction
- using patternmaking tools and equipment
- applying advanced patternmaking principles to develop at least two (2) patterns from existing block to specified design
- documenting methods and formulas used, checking pattern pieces, and labelling and completing markings
- testing toile or garment segments, assessing against design specifications, and making any necessary alterations to finalise pattern and check it is accurate, complete and complies with design specifications
- selecting and detailing appropriate base sizing system, and preparing spreadsheet and grade table of full size range with essential measurements
- completing pattern specification sheets with trade drawings, attaching to patterns for storage and filing appropriately
- preparing work order for sizing labels, as required.

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 tools and equipment:
 - blocks
 - dress form
 - scissors
 - square rule
 - marker pens

- hole punch
- pins
- fashion triangle
- French curve
- pattern notcher
- weights
- tape measure
- design specifications and procedures
- style features:
 - garment type
 - collar
 - sleeves
 - yoke
 - sides
 - openings
 - neckline
 - buttons
 - seams
 - zips
 - gathers
 - pleats
 - panels
 - tucks
- advanced patternmaking principles and procedures
- design requirements and style features:
 - fabric characteristics and performance
 - trim details and finishings
 - special construction methods
- customer and workplace fit requirements
- fabric characteristics:
 - type of fabric
 - finish
 - colour of fabric
 - positioning of design
 - suitability of size, design and colour
- garment features:
 - fitting and seam lines
 - style lines
 - yokes, gores and panels
 - necklines

- sleeves
- collars
- zips and buttons
- pockets
- waistbands
- pattern markings:
 - appropriate seam allowance
 - notching
 - pattern information (size, style number, cutting instructions and identity)
 - darts
 - drill holes
 - grain line
 - stitching line
- marker making procedures
- cutting and garment construction
- pattern pieces:
 - accuracy of seam allowances
 - ease allowance
 - seam match
 - hems
 - functional openings
- body sciences:
 - structural anatomy
 - morphology
 - anthropometry
- sizing systems
- 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 patternmaking, 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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