



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **LMTFD4010B Create pattern to meet design specifications applying advanced pattern-making principles**

**Release: 1**

## **LMTFD4010B Create pattern to meet design specifications applying advanced pattern-making principles**

### **Modification History**

Not applicable.

### **Unit Descriptor**

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| <b>Unit descriptor</b> | This unit covers the skills and knowledge to create patterns using an existing block, and applying advanced pattern-making principles. |
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### **Application of the Unit**

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| <b>Application of the Unit</b> | <p>The unit applies to the development of a pattern from an existing block, using advanced pattern-making principles, including contouring, square blocking and pivoting.</p> <p>Work may be conducted in small to large scale enterprises and may involve individual and team-related activities.</p> <p>The application of this unit is according to OHS practices of the enterprise and workplace practices, which may include:</p> <ul style="list-style-type: none"><li>• requirements prescribed by legislation, awards agreements and conditions of employment</li><li>• standard operating procedures</li><li>• work instructions</li><li>• oral, written and visual communication</li><li>• quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output</li><li>• housekeeping</li><li>• tasks related to environmental protection, waste disposal, pollution control, and recycling</li></ul> <p>This unit requires the application of skills associated with planning and organising to develop patterns. Problem solving skills are required to determine and apply suitable pattern-making principles to achieve design requirements and identify any pattern problems. Communication and numeracy skills are used to interpret designs and develop and document pattern specifications. Self management skills are used to ensure safe use of technology and conformance of work to quality standards.</p> |
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## **Licensing/Regulatory Information**

Not applicable.

## **Pre-Requisites**

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| <b>Prerequisites</b> | LMTCL3009B |
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## **Employability Skills Information**

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| <b>Employability Skills</b> | This unit contains employability skills. |
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## **Elements and Performance Criteria Pre-Content**

Not applicable.

## Elements and Performance Criteria

| ELEMENT  | PERFORMANCE CRITERIA   |
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| 1 Prepare workstation                          | <p>1.1 Workstation and seating are set up according to <b>OHS practices</b> and specifications for work.</p> <p>1.2 <b>Pattern-making tools and equipment</b> are selected and prepared.</p> <p>1.3 Any additional materials and equipment required to perform task are collected.</p> <p>1.4 Pattern-making tools, equipment and supplies are laid out for efficient and safe operation.</p>  |
| 2 Interpret the design                         | <p>2.1 Design drawings and specifications are interpreted and clarified.</p> <p>2.2 Design lines and <b>style features</b> are identified.</p> <p>2.3 Fabric characteristics and performance, and trims and finishings are considered in relation to design.</p> <p>2.4 Any special construction methods or trim details of garment are considered in relation to design.</p> <p>2.5 Ease allowance is determined.</p> <p>2.6 Details of base size are obtained.</p> |
| 3 Select block                                 | <p>3.1 Pattern production is planned.</p> <p>3.2 Appropriate block is determined for development of pattern.</p> <p>3.3 Appropriate block is selected and retrieved from storage system.</p>   |
| 4 Create pattern                               | <p>4.1 <b>Advanced patternmaking principles</b> are applied in developing pattern.</p> <p>4.2 <b>Methods and formulas</b> used are documented.</p> <p>4.3 Pattern is produced from existing block to specified design.</p> <p>4.4 Pattern pieces are checked for accuracy of seam allowances, ease allowance, seam match, hems and functional openings.</p> <p>4.5 Pattern pieces are labelled and <b>markings</b> completed.</p>                                    |
| 5 Test and finalise pattern                    | <p>5.1 Toile or garment segments are tested as appropriate.</p> <p>5.2 Toile or garment segments are examined and assessed against design specifications.</p> <p>5.3 Any pattern alterations are completed and assessed to meet specifications.</p> <p>5.4 Pattern is finalised and checked to ensure accuracy, completeness and compliance to design specifications.</p>  |
| 6 Prepare pattern documentation for production | <p>6.1 Sizing system for pattern and base size are identified.</p> <p>6.2 Spreadsheet of full range for selected sizing system is prepared with essential measurements.</p> <p>6.3 Grade table for full size range is prepared.</p> <p>6.4 Pattern specification sheets with trade drawings are completed and attached to patterns for storage.</p> <p>6.5 Work order for sizing labels is prepared as required.</p> <p>6.6 Finished patterns are filed.</p>         |

## Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Demonstrates knowledge of:

- principles and concepts of pattern making
- customer and workplace fit requirements
- cost efficiency in relation to pattern making
- range of typical garment fabrics, including weight and other characteristics
- marker making procedures
- cutting and garment construction
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- recording and reporting practices

Demonstrates skills to:

- consistently achieve quality and production output requirements
- undertake a range of activities associated with creating patterns
- develop patterns with consideration to the characteristics of fabric and trimmings
- test pattern
- use manual or CAD systems
- read, interpret and follow information on work specifications, standard operating procedures and work instructions, and other reference material
- maintain accurate records
- communicate within the workplace
- sequence operations
- meet specifications
- clarify and check task-related information
- carry out work according to OHS practices

## Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

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| <b>Critical aspects of evidence</b> | Demonstrates skills and knowledge to: <ul style="list-style-type: none"><li>• identify and define design lines and features</li><li>• choose existing block to suit work specifications</li><li>• create, check and test patterns</li><li>• make toile</li><li>• communicate effectively with design team, customers, etc.</li><li>• apply OHS practices</li><li>• maintain accurate records</li></ul>  |
| <b>Consistency in performance</b>   | Consistently applies skills and knowledge when: <ul style="list-style-type: none"><li>• organising work</li><li>• completing tasks</li><li>• identifying improvements</li><li>• using workplace practices</li><li>• using OHS practices</li><li>• recording and reporting accidents and incidents</li><li>• assessing operational readiness of equipment used and work processes</li><li>• recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions</li><li>• completing work systematically with attention to detail without damage to goods and equipment</li></ul> |
| <b>Resource implications</b>        | Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.   |
| <b>Context for assessment</b>       | Assessment may occur on the job or in an appropriately simulated environment.   |
| <b>Interdependent assessment</b>    | This unit may be assessed independently or in combination with other relevant units.  |

## Range Statement

### **RANGE STATEMENT**

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the Performance Criteria, is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

**Legislative/regulatory requirements** All work must comply with relevant Federal and State or Territory legislative or regulatory requirements.

**OHS practices** OHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit and may include:

- manual handling techniques
- standard operating procedures
- personal protective equipment
- safe materials handling
- taking of rest breaks
- ergonomic arrangement of workplaces
- following marked walkways
- safe storage of equipment
- housekeeping
- reporting accidents and incidents
- other OHS practices relevant to the job and enterprise

**Pattern-making tools and equipment may include:**

- blocks
- scissors
- square rule
- marker pens
- hole punch
- pins
- fashion triangle
- French curve
- pattern notcher
- weights
- tape measure

**Style features may include:**

- garment type, collar, sleeves, yoke, sides, openings, neckline, buttons, seams, zips, gathers, pleats, panels, tucks

**Advanced pattern-making principles include:**

- pivoting
- square blocking
- contouring

|                           |   |
|---------------------------|---|
| Pattern markings include: | <ul style="list-style-type: none"><li>• appropriate seam allowance</li><li>• notching</li><li>• pattern information (size, style number, cutting instructions and identity)</li><li>• darts</li><li>• drill holes</li><li>• grain line</li><li>• stitching line</li></ul> |
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| Methods and formulas may include: | <ul style="list-style-type: none"><li>• deviations from standard patterns</li><li>• sources of pattern components</li><li>• pattern derivation methods and formulas</li><li>• block construction methods and formulas</li><li>• application of current industry practice</li></ul> |
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## Unit Sector(s)

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| Sector | Fashion Design and Technology |
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