



Australian Government

Department of Education, Employment and Workplace Relations

LMTFD5002B Develop and test patterns for bras and swimwear

Revision Number: 1

LMTFD5002B Develop and test patterns for bras and swimwear

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the skills and knowledge to develop and test patterns for bra and swimwear production using an existing block and applying pattern-making principles.
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Application of the Unit

Application of the Unit	The unit applies to the patterns for production of bras and swimwear that include structured foundations such as boning, underwire, corsetry, etc. Bras and swimwear that does not include these components are covered in other pattern-making units. This unit applies to the development and testing of a pattern from an existing block, utilising advanced principles of pattern making. Work may be conducted in small to large scale enterprises and may involve individual and team-related activities. The application of this unit is according to OHS practices of the enterprise and workplace practices, which may include: • requirements prescribed by legislation, awards agreements and conditions of employment • standard operating procedures • 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 This unit requires the application of skills associated with communication and problem solving to develop and document patterns. Planning and organising skills are required to complete patterns. Self management skills are required to ensure patterns meet quality requirements and specifications.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisites	LMTCL2004B LMTCL3009B
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Employability Skills Information

Employability Skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Prepare workstation	1.1 Workstation and seating are set up according to OHS practices and specifications for work. 1.2 Pattern-making tools and equipment are selected and prepared. 1.3 Any additional materials or equipment required to perform task are selected and prepared. 1.4 Pattern-making tools, equipment and supplies are laid out in preparation for patternmaking.
2 Interpret the design	2.1 Design drawings and specifications are interpreted and clarified with designer as required. 2.2 Design lines and style features are identified. 2.3 Fabric characteristics and performance, and trims, components and finishings are considered in relation to the design. 2.4 Any special construction methods for bras and swimwear are considered in relation to the design. 2.5 Size standards for fit are determined.
3 Select block	3.1 Pattern production is planned according to quality standards. 3.2 Appropriate block is determined for development of bra or swimwear pattern. 3.3 Appropriate block is selected and retrieved from storage system.
4 Develop pattern	4.1 Advanced principles of pattern making are applied in constructing bra or swimwear pattern. 4.2 Methods and formulas used are documented. 4.3 Pattern is produced from existing block to specified measurements. 4.4 Pattern pieces are checked for accuracy of seam allowances, seam match, hems, multiple layers and tolerances. 4.5 Pattern pieces are labelled and markings completed.
5 Test and finalise pattern	5.1 Segments are constructed. 5.2 Segments are examined and assessed for compatibility of pattern to design. 5.3 Construction problems are identified and documented. 5.4 Fitting is performed to ensure that bra or swimwear meets design criteria and fit. 5.5 Pattern is checked to ensure it meets Australian Standards. 5.6 Any pattern alterations are completed and assessed to meet fitting requirements. 5.7 Pattern is finalised and checked to ensure accuracy, completeness and compliance to design specifications.

ELEMENT	PERFORMANCE CRITERIA
	5.8 Garment is checked to ensure it meets all requirements to be commercially viable, manufacturing specifications and fit.
6 Complete work	6.1 Specification sheets, including trade drawing, are completed and attached to patterns for storage. 6.2 Finished patterns are filed and stored.

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 patternmaking
- customer and workplace fit requirements
- cost efficiency in relation to patternmaking
- range of 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, trimmings and components
- construct garment toiles
- test pattern and recommend alternative construction methods
- 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.

Critical aspects of evidence	Demonstrates skills and knowledge to: • identify and define design lines and features • create patterns to suit one-way, two-way and no-stretch fabrics • choose existing block to suit work specifications • create, check and test patterns • make prototype • communicate effectively with design team, customers, etc. • apply OHS practices in work operations • maintain accurate records
Consistency in performance	Consistently applies skills and knowledge when: • organising work • completing tasks • identifying improvements • using workplace practices • using OHS practices • recording and reporting accidents and incidents • assessing operational readiness of equipment used and work processes • recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions • completing work systematically with attention to detail without damage to goods and equipment
Resource implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Context for assessment	Assessment may occur on the job or in an appropriately simulated environment.
Interdependent assessment	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:

- scissors
- square rule
- marker pens
- hole punch
- pins
- fashion triangle
- French curve
- pattern notcher
- weights
- tape measure
- CAD terminal and program

Style features may include:

- garment type (bra, swimwear)
- number of panels
- sleeves
- sides
- openings
- neckline

	• seams • gathers • pleats • panel tucks
Fabrics must include:	• one-way stretch • two-way stretch • no-stretch (bias cut fabrics)
Components may include:	• straps • hooks • elastic • fasteners • ribbon • underwire • foam padding • oil filled straps • rings
Special construction methods may include:	• fusing • gluing • moulding • sewing requirements • seam allowances • stitch requirements • seam finishes such as flat seam, blind hem, French seam
Advanced principles of pattern making include:	• pivoting • square blocking • contouring
Methods and formulas may include:	• deviations from standard patterns • sources of pattern components • pattern derivation methods and formulas • block construction methods and formulas • application of current industry practice
Pattern markings include:	• appropriate seam allowance • notching • pattern information (size, style number, cutting instructions and identity) • darts • drill holes • grain line • cutting line • stitching line

Unit Sector(s)

Sector	Fashion Design and Technology
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