



Australian Government

MSTFD5002 Develop and test patterns for bras and swimwear

Release: 2

MSTFD5002 Develop and test patterns for bras and swimwear

Modification History

Release 2. Supersedes and is equivalent to MSTFD5002 Develop and test patterns for bras and swimwear (Release 1).

Pre-requisite unit, MSTGN2011 Identify fibres, fabrics and textiles used in the TCF industry, is **superseded by** MSTGN2013 Identify fibres, fabrics and textiles used in the TCF industry.

Release 1. Supersedes and is equivalent to LMTFD5002B Develop and test patterns for bras and swimwear.

Application

This unit of competency covers the skills and knowledge to develop and test patterns for bra and swimwear production using an existing block and applying patternmaking principles.

The unit of competency applies to patterns which include structured foundations. Bras and swimwear that do not include these components are covered in other patternmaking units.

This unit of competency applies to working as an individual or as part of a production team to develop and test a pattern from an existing block, using advanced principles of patternmaking.

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

MSTGN20 Identify fibres, fabrics and textiles used in the TCF industry
13

MSTCL30 Develop patterns from a block using basic patternmaking
09 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.

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|---|--|-----|--|
| 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 develop patterns for bras and swimwear | 2.1 | Select and prepare patter-making 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 | Confirm fabric characteristics and performance, trims, components and finishings specified in the design |
| | | 2.4 | Consider current practices, specialised needs and special construction methods for bras and swimwear with structured foundations |
| | | 2.5 | Determine size standards for fit |
| | | | |
| 3 | Create pattern for bras and swimwear | 3.1 | Plan pattern production according to quality and workplace standards |
| | | 3.2 | Select appropriate block for developing bra or swimwear pattern |
| | | 3.3 | Make necessary adjustments to seams to create silhouette to match design brief |
| | | 3.4 | Produce pattern using advanced patternmaking principles and document methods and formulas used |
| | | 3.5 | Check pattern pieces, label and complete markings |
| | | 3.6 | Identify and document any construction problems and |

check pattern meets Australian Standards

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|---|-----------------------------------|-----|---|
| 4 | Check and finalise pattern | 4.1 | Construct segments and assess the pattern is compatible with design |
| | | 4.2 | Complete any pattern alterations and assess pattern meets fit and design requirements |
| | | 4.3 | Finalise pattern and check it is accurate, complete and complies with design specifications |
| | | 4.4 | Complete pattern specification sheet, attach to patterns for storage and file appropriately |

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

Structured foundations include one or more of the following:

- boning
- underwire
- corsetry

Fabrics include one or more of the following:

- one-way stretch
- two-way stretch
- no-stretch (bias cut fabrics)

Specialised needs include one or more of the following:

- styling features relating to health effects of bra and swimwear construction
- appropriate bra and swimwear structure for special client groups, including maternity, mastectomy, junior and costume wear
- sports and fuller figure bras and swimwear and the need for extra support
- use of specialist materials and trims

Advanced principles of patternmaking include one or more of the following:

- pivoting
- square blocking
- contouring

Check pattern pieces includes one or more of the following:

- accuracy of seam allowances
- ease allowance
- seam match
- hems
- functional openings
- flow through

Methods and formulas include one or more of the following:

- deviations from standard patterns
- sources of pattern components
- pattern derivation methods and formulas
- block construction methods and formulas
- application of current industry practice

Specification documents include:

- number of pattern pieces
- what the pattern consists of (e.g. 2 bodice, 1 sleeve)
- measurement table

- size table
- technical drawing
- details of types of materials (fabric, lining, fusing, elastic, closures and trims)
- sign-off
- recommendations for stitching

Unit Mapping Information

Release 2. Supersedes and is equivalent to MSTFD5002 Develop and test patterns for bras and swimwear (Release 1).

Release 1. Supersedes and is equivalent to LMTFD5002B Develop and test patterns for bras and swimwear.

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 MSTFD5002 Develop and test patterns for bras and swimwear

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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
- applying industry standards to create patterns to meet client briefs for at least two (2) different target groups or specialised needs, using two (2) different types of fabric: one-way stretch, two-way stretch or no stretch fabric
- using patternmaking tools and equipment according to industry practices and choosing appropriate existing block to develop at least two (2) patterns for bras or swimwear
- producing patterns that meet Australian Standards, using advanced patternmaking principles and documenting methods and formulas used
- checking pattern pieces, labelling and completing markings, and documenting any construction problems
- constructing segments, completing any pattern alterations, finalising pattern and assessing pattern meets fit and design requirements
- completing pattern specification sheet, attaching to patterns for storage and filing appropriately.

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:
 - scissors
 - square rule
 - marker pens
 - hole punch

- pins
- fashion triangle
- French curve
- pattern notcher
- weights
- tape measure
- computer-aided design (CAD) terminal and program
- design specifications and procedures
- patternmaking principles and procedures
- components of structured garments:
 - straps
 - hooks
 - elastic
 - fasteners
 - ribbon
 - underwire
 - foam padding
 - oil filled straps
 - rings
 - fine lace and delicate fabrics
- current practices and special construction methods for bras and swimwear with structured foundations:
 - fusing
 - gluing
 - moulding
 - sewing requirements
 - seam allowances
 - stitch requirements
 - seam finishes, such as flat seam, blind hem and French seam
- design requirements and style features:
 - garment type (bra and swimwear)
 - number of panels
 - sleeves
 - sides
 - openings
 - neckline
 - seams
 - gathers
 - pleats
 - panel tucks

- customer and workplace fit requirements
- fabric characteristics of one-way, two-way and no-stretch fabrics
- marker making procedures
- pattern markings:
 - appropriate seam allowance
 - notching
 - pattern information (size, style number, cutting instructions and identity)
 - darts
 - drill holes
 - grain line
 - cutting line
 - stitching line
- cutting and garment construction
- 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 developing patterns for bras and swimwear 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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