



Australian Government

MSTFD4013 Grade 2-D patterns

Release: 1

MSTFD4013 Grade 2-D patterns

Modification History

Release 1. Supersedes and is equivalent to LMTFD4013B Grade 2D patterns

Application

This unit of competency covers the skills and knowledge to grade flat or 2-D patterns used for garment production.

The unit of competency applies to production of a basic style garment where discretion and judgement may be required in planning and selecting processes, procedures or outcomes.

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

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|---|----------------------------------|-----|---|
| 2 | Prepare to grade patterns | 2.1 | Select and prepare workstation and/or equipment according to WHS practices |
| | | 2.2 | Identify grading system used in workplace |
| | | 2.3 | Identify measurements of base size and subsequent spread |
| | | 2.4 | Calculate number of sizes in grading and establish grade increments between sizes |
| | | 2.5 | Set up base pattern of a basic style |
| | | 2.6 | Identify style and fabric characteristics which influence grading and check queries with patternmaker |
| | | 2.7 | Select appropriate grade plan and construct grade rule table |
| | | | |
| 3 | Grade pattern | 3.1 | Determine stacking or outlay requirements, including direction |
| | | 3.2 | Grade pattern manually using patternmaking technical skills or by computer |
| | | 3.3 | Identify stack points or lines if stacking is used |
| | | 3.4 | Preserve integrity of pattern attributes during grading |
| | | 3.5 | Accurately label all pattern pieces with pattern marking symbols |
| | | 3.6 | Check pattern for accuracy and rectify or address faults as required |
| | | | |
| 4 | Finalise grading | 4.1 | Maintain records and complete documentation, as required |
| | | 4.2 | File patterns |

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
Grading system includes the following:	• flat, 2-D patterns • position of constant or stack point
Basic styles of garments include two or more of the following:	• A-line skirt • straight skirt • t-shirt • shirt • pants • shorts (elastic waisted) • blouses • lingerie
Set up base pattern	• identifying base pattern and pattern pieces

includes the following:

- establishing constant or '0' position
- assigning grade points with corresponding values
- checking base size pattern for correct information, balance points and pattern fit
- seeking clarification, as required

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTFD4013B Grade 2D patterns

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 MSTFD4013 Grade 2-D patterns

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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
- identifying required grading system, measurements of base size and subsequent spread
- calculating number of sizes in grading and establishing grade increments between sizes
- setting up base pattern of a basic style and identifying style and fabric characteristics which influence grading
- selecting appropriate grade plan and constructing grade rule table
- using computer-aided design (CAD) or manual grading system to grade at least two (2) flat, 2-D patterns of at least two (2) basic style garments
- checking patterns for accuracy and rectifying faults
- correctly marking and labelling pattern pieces
- communicating effectively with individuals, work groups and supervisors
- maintaining accurate records, completing documentation and filing patterns.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- Australian size standards
- workplace and customer size charts
- grading systems
- marker making
- pattern marking symbols and labelling:
 - appropriate seam allowance
 - notching
 - darts
 - drill holes
 - grain line
 - cutting line
 - stitching line
 - pattern information (size, style number, cutting instructions and identity)

- cost efficiency in patternmaking
- recording and reporting practices.

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 pattern making, 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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