



Australian Government

MSTAT5014 Conduct digital patternmaking and grading

Release: 1

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Modification History

Release 1. Unit Code and Application changed. Elements and Performance Criteria simplified with Element 1 removed and Elements 5 and 6 combined. Foundation Skills field populated. Range of Conditions removed with relevant information moved to Performance or Knowledge Evidence. Assessment Requirements clarified with generic foundation skills statements moved to appropriate section and duplication with Performance Criteria removed. Supersedes and is equivalent to MSTFD5021 Conduct digital patternmaking and grading.

Application

This unit describes the skills and knowledge required to use digital technologies to produce patterns and complete pattern grading for garments. It involves the use of specialised electronic programs and computing equipment to digitise patterns and access existing pattern block libraries to create and grade pattern styles for a set size range.

This unit applies to patternmakers who work in accordance with existing specifications using discretion, judgement and problem solving to maximise cost efficiency and quality.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

Nil

Competency Field

Apparel and Textile Production

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Determine pattern requirements	1.1 Interpret measurements and pattern requirements from technical drawings and specifications 1.2 Identify garment factors that need to be considered 1.3 Prepare suitable programs and equipment in accordance with design specifications
2. Create patterns or blocks using digital	2.1 Identify and use digital library opportunities

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
techniques	2.2 Use program features to modify or create patterns or blocks that meet design specifications 2.3 Export pattern and confirm accuracy against design and production specifications 2.4 Finalise, store and process pattern to next stage in accordance with job requirements
3. Grade patterns using digital techniques	3.1 Confirm accuracy of patterns and pattern points in preparation for grading 3.2 Grade pattern according to sizing system for identified target market 3.3 Assess accuracy and completeness of pattern against specifications and make required adjustments 3.4 Create final outputs and store in accordance with workplace procedures.

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret technical drawing and specifications
- Numeracy skills to create and manipulate numerical data in software applications.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Supersedes and is equivalent to MSTFD5021 Conduct digital patternmaking and grading.

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 MSTAT5014 Conduct digital patternmaking and grading

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- digitize one pattern or block
- produce one digital pattern through digital block or digital pattern modification according to design specifications
- create one digital pattern exclusively in a digital environment according to design specifications
- produce an accurate digitally graded pattern for at least two different garments.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- use of technical drawings and specifications in patternmaking
- inclusive industry sizing, size distribution and grade increments
- use of digital programs and computer hardware
- at least one digital software program used for garment patternmaking and grading, including
 - operating procedures
 - program features
 - editing tools and procedures
 - filing and storage procedures
 - use of grade rule libraries
- different software for patternmaking and grading programs.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - technical drawings and specification sheets
 - computer hardware
 - patternmaking and grading software.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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