



**Australian Government**

# **MSTAT5012 Grade complex patterns**

**Release: 1**

## MSTAT5012 Grade complex patterns

### Modification History

Release 1. Unit code and Application changed. Elements and Performance Criteria simplified with Element 1 removed. Foundation Skills field populated. Range of Conditions removed with relevant information moved to Knowledge Evidence. Assessment Requirements clarified with generic foundation skills statements moved to appropriate section and duplication with Performance Criteria removed. Knowledge already covered in prerequisite unit removed. Supersedes and is equivalent to MSTFD5016 Grade complex patterns.

### Application

This unit describes the skills and knowledge required to conduct allometric grading of shaped or 3D patterns for fashion garments where the focus is on taking into account differences in body growth for a specialised fit. Allometric grading must consider the relative growth rate of different parts of the body.

The unit applies to patternmakers working in roles where discretion and judgement may be required in planning and selecting processes.

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

MSTAT4009 Grade 2D patterns

### 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. Prepare to grade complex patterns      | 1.1 Research target market for garment and collect data for measurement table<br>1.2 Clarify design brief and confirm target market and intended purpose of design with designer<br>1.3 Analyse measurement table against size range of target market to identify growth of circumference and length increments<br>1.4 Create accurate grade rule table |

| Elements                                  | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element.                                                                                                                                                                                                                                                                                            |
|                                           | 1.5 Identify base size, allocate grade points and construct grade rule table                                                                                                                                                                                                                                                                                                               |
| 2. Grade patterns                         | 2.1 Check pattern for accuracy and make required corrections<br>2.2 Determine stacking or outlay requirements, including direction<br>2.3 Accurately grade pattern based on created grade rule table<br>2.4 Identify required stack points or lines<br>2.5 Preserve integrity of pattern attributes during grading<br>2.6 Accurately label all pattern pieces with pattern marking symbols |
| 3. Finalise and store complex patterns    | 3.1 Prepare shaped patterns or markers and present in required format in preparation for production<br>3.2 Prepare accurate specification documents<br>3.3 Complete documentation 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 detailed patternmaking information
- Writing skills to communicate factual pattern and production information in workplace documents
- Numeracy skills to interpret numerical aspects of design specifications, take accurate measurements and make simple calculations.

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

## Unit Mapping Information

Supersedes and is equivalent to MSTFD5016 Grade complex 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 MSTAT5012 Grade complex patterns

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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:

- use digital or manual grading system to grade at least two shaped or 3D patterns.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- considerations for averages and differences when grading patterns
- body growth, including change in shape and increase in dimension of the neck, torso and limbs which is independent of growth in stature
- grading methodologies:
  - allometric or 3D apportioning of grade increments
  - positioning of constant or stack point through growth areas of body
  - grading of shaped patterns.

## 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:
  - patterns for grading
  - pattern grading equipment (manual or digital)
  - workplace and customer size charts.

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

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