



Australian Government

MSTFD5016 Grade complex patterns

Release: 1

MSTFD5016 Grade complex patterns

Modification History

Release 1. Supersedes and is equivalent to LMTFD5016B Grade shaped patterns

Application

This unit of competency covers the skills and knowledge required to conduct allometric grading of shaped or 3-D patterns for fashion garments.

The unit of competency applies to grading patterns 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. Discretion and judgement may be required in planning and selecting processes.

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

MSTFD4013 Grade 2-D patterns

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
- 2 **Prepare to grade complex patterns**
- 2.1 Research target market and collect data of target market for measurement table
- 2.2 Clarify design brief and confirm target market and intended purpose of design with designer
- 2.3 Analyse measurement table
- 2.4 Identify growth of circumference and length increments and construct size table
- 2.5 Identify base pattern pieces, allocate grade points and construct grade rule table
- 3 **Grade complex patterns**
- 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 and store complex patterns**
- 4.1 Prepare shaped patterns and markers and present in preparation for production
- 4.2 Prepare specification documents required
- 4.3 Maintain records and complete documentation as required
- 4.4 File patterns according to workplace procedures

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

Research target market includes the following:

- analyse target market
- identify averages and differences
- analyse body growth
- record relevant data

Body growth includes the following:

- change in shape
- increase in dimension of the neck, torso and limbs which is independent of growth in stature

Grading methodology includes the following:

- allometric or 3-D apportion of grade increments
- positioning of constant or stack point through growth areas of body

Shaped grading includes the following:

- a construction-based method of grading
- reduces or grows a base pattern in height, girth and shape
- distributes grade increments at points and in values that reflect a third dimension to a flat 2-D pattern
- must consider the relative growth rate of different parts of the body

Unit Mapping Information

Release 1. Supersedes and is equivalent to LMTFD5016B Grade shaped patterns

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>