



Australian Government

Department of Education, Employment and Workplace Relations

LMTFD5016B Grade shaped patterns

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

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

Application of the Unit

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The unit applies to the allometric grading of 3D or shaped patterns for 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.

Discretion and judgement are required, for both self and others, in planning and selecting processes, procedures or outcomes.

Work may be conducted in small to large scale enterprises and may involve individual and team-related activities.

The application of this unit is according to OHS practices of the enterprise and workplace practices, which may include:

- requirements prescribed by legislation, awards agreements and conditions of employment
- standard operating procedures
- 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

This unit requires the application of skills associated with problem solving and planning and organising to determine size and grading requirements and select base pattern. Communication and numeracy skills are used to analyse and determine required pattern information and complete pattern documentation. Self management skills are used to ensure conformance of grading to quality standards and market requirements.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisites LMTFD4013B

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Analyse size of market	1.1 Market is researched for averages and differences. 1.2 Body growth of target market is analysed. 1.3 Data of target market is collected for measurement table. 1.4 Appropriate base size is selected. 1.5 Appropriate grading methodology is selected.
2 Develop a shaped grade plan	2.1 Design brief and specifications are interpreted. 2.2 Target market and intended purpose of design is discussed and clarified with designer. 2.3 Measurement table is analysed. 2.4 Growth of circumference and length increments is identified and size table is constructed. 2.5 Base pattern pieces are identified. 2.6 Grade points are allocated. 2.7 Grade rule table is constructed.
3 Grade pattern	3.1 Stacking or outlay requirements, including direction are determined. 3.2 Pattern is graded manually using patternmaking technical skills or by computer, according to OHS practices. 3.3 If stacking, stack points or lines are identified. 3.4 Integrity of pattern attributes is preserved during grading. 3.5 All pattern pieces are accurately labelled with all necessary pattern marking symbols. 3.6 Pattern is checked for accuracy and appropriate action taken, if necessary.
4 Prepare portfolio	4.1 Shaped patterns and markers are prepared and presented in preparation for production. 4.2 Specification documents are prepared as required.
5 Maintain records	5.1 Records are maintained and documentation completed. 5.2 Patterns are filed.

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Demonstrates knowledge of:

- Australian size standards
- workplace and customer size charts
- patternmaking and the development of a pattern
- cost-efficiency in patternmaking
- marker making
- allometric grading concepts
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- recording and reporting practices

Demonstrates skills to:

- produce precise results
- use CAD or manual grading systems
- communicate effectively with individuals, work groups and supervisors
- document and transfer information
- consistently achieve quality and production output requirements
- read, interpret and follow information on work specifications, standard operating procedures and work instructions, and other reference material
- maintain accurate records
- sequence operations
- meet specifications
- clarify and check task-related information
- carry out work according to OHS practices

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

Critical aspects of evidence	Demonstrates skills and knowledge to: • analyse market • grade shaped patterns • ensure graded patterns meet specifications • construct grade rule table • prepare and present pattern portfolio • communicate effectively with design team, customers, etc. • apply OHS practices in work operations • maintain accurate records
Consistency in performance	Consistently applies skills and knowledge when: • organising work • completing tasks • identifying improvements • using workplace practices • using OHS practices • recording and reporting accidents and incidents • assessing operational readiness of equipment used and work processes • recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions • completing work systematically with attention to detail without damage to goods and equipment
Resource implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Context for assessment	Assessment may occur on the job or in an appropriately simulated environment.
Interdependent assessment	This unit may be assessed independently or in combination with other relevant units.

Range Statement

RANGE STATEMENT

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the Performance Criteria, is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

Legislative/regulatory requirements	All work must comply with relevant Federal and State or Territory legislative or regulatory requirements.
Body growth is:	the change in shape and/or increase in dimension of the neck, torso and limbs which is independent of growth in stature
Grading methodology must include:	- allometric or 3D apportion of grade increments - positioning of constant or stack point through growth areas of body
Shaped grading is:	a construction-based method of grading that reduces or grows a base pattern in height, girth and shape and distributes grade increments at points and in values that reflect a third dimension to a flat 2D pattern
OHS practices	OHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit and may include: - manual handling techniques - standard operating procedures - personal protective equipment - safe materials handling - taking of rest breaks - ergonomic arrangement of workplaces - following marked walkways - safe storage of equipment - housekeeping - reporting accidents and incidents - other OHS practices relevant to the job and enterprise
Pattern attributes may include:	- darts - notches - shape - design proportion
Pattern marking symbols may include:	- grain lines - darts - all necessary slits - job seams

- seam allowance
- correct written information and instructions

Unit Sector(s)

Sector Fashion Design and Technology