



Australian Government

Department of Education, Employment and Workplace Relations

LMTFD6009B Analyse fashion industry textiles to guide commercial development

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the range of skills and knowledge to effectively research and analyse textiles used in the fashion and clothing industries and make recommendations to guide the commercial development of fashion products.

Application of the Unit

Application of the Unit

The unit applies to activities associated with researching and analysing raw materials, partially finished and finished fashion products. Findings should be used to make recommendations to guide commercial development of materials and products on aspects such as quality, processing, finish, use, properties or performance. Work is performed in line with a broad plan or strategy. Significant judgement is required in planning, design, technical or supervisory activities related to research and development activities.

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 skills in communication to conduct research, analyse information and prepare reports and presentations. Problem solving, planning and organising and initiative and enterprise skills are applied to test quality, and assess characteristics and useability of textiles. Self management and learning are applied in the research and analysis of new information.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisites

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 Establish research criteria	1.1 Research objectives are established. 1.2 Criteria for research are established. 1.3 Research plan is developed.
2 Research textiles used in fashion products	2.1 Textiles used in fashion products are researched to determine properties, qualities , aesthetic and performance characteristics . 2.2 New and emerging textiles and textile processing techniques are investigated. 2.3 Global and domestic trends in use of textiles for fashion products are researched. 2.4 A range of routine and non-routine tests is used to gather data on textiles.
3 Research fashion products	3.1 Fashion products or uses incorporating researched textiles are identified. 3.2 Quality and performance characteristics of a sample range of partially completed or finished fashion products are researched. 3.3 Factors influencing quality of fashion products are identified. 3.4 Product faults are identified and examined. 3.5 Global and domestic implications for use of fashion products are researched. 3.5 A range of routine and non-routine tests is used to gather data on fashion product quality.
4 Analyse findings	4.1 Research findings are analysed and prioritised according to significance. 4.2 Findings are analysed against research objectives and criteria. 4.3 Methodology is reviewed to identify any potential influences on findings. 4.4 Findings are analysed to establish ability contribute to commercial developments. 4.4 Findings with most potential are selected for further review.
5 Make recommendations	5.1 Features and benefits of selected findings are analysed. 5.2 Disadvantages or risks associated with selected findings are analysed. 5.3 Recommendations are made on how findings are used for commercial gain.
6 Prepare reports and presentations	6.1 Report on research findings and recommendations is developed. 6.2 Data is checked for accuracy and relevance, when required. 6.3 Reports and presentations are prepared.

Required Skills and Knowledge

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

Demonstrates knowledge of:

- sources of information
- qualities and properties of textiles
- commercial relevance or objectives for research
- research methodology
- relevant OHS legislation, codes of practice, copyright obligations, policies and procedures
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- recording and reporting practices

Demonstrates skills to:

- effectively evaluate processes
- identify constraints
- determine options
- interpret findings
- test validity of information
- use research tools
- establish, analyse and/or interpret procedures, where required
- determine report requirements
- read, interpret and follow information on work specifications, standard operating procedures and work instructions, and other reference material
- maintain accurate records
- communicate within the workplace
- 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: • plan and apply research methodology • define research findings • perform required tests • form recommendations • prepare reports/presentations
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.

Criteria may include:

- scope of research
- required documentation
- required research verification
- research methodologies
- timing
- commercial constraints or requirements

Fashion textiles may include:

- natural fibres such as cotton, wool, silk, linen
- synthetic fibres such as polyamide and polyester, acrylic, lycra, rayon, acetate
- natural and synthetic single-yarn fabrics and blends, including:
- knitted fabrics such as weft knits and warp knits
- woven fabrics such as plain, twill, satin, dobby, jacquard and pile
- non-woven fabrics such as felts, nets, braids, bonded and composite
- emerging smart fabrics
- raw materials
- new and emerging textiles
- yarn

Qualities may include:

- firmness
- softness
- hand
- weight
- grain or gauge
- drape
- porosity
- covering power
- count
- light penetration

Performance characteristics may include:

- stretch
- abrasion
- wearability

	• absorbency • durability • elasticity • heat sensitivity • shrink resistance • ease of care • drape quality • colour fastness • strength
Routine tests may include:	• visual checking, colour matching, weighing, height/weight/thickness measuring, moisture measuring, measuring rubbing fastness, stretch, wear, cracking, colour, gloss, softness, handle, texture, light and colour fastness, heat fastness, tensile characteristics, flexibility, etc.
Non-routine tests include:	• tests performed in a laboratory environment to laboratory level standards
Reports may include:	• report structure: • title page • table of contents • summary • introduction • theories and hypotheses • body (findings and conclusions) • methodology • test results • recommendations • references • appendixes • glossary • report content: • text • graphs • charts • tables • diagrams
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

Unit Sector(s)

Sector Fashion Design