



Australian Government

Department of Education, Employment and Workplace Relations

LMTGN5010A Plan and organise non-routine testing

Revision Number: 1

LMTGN5010A Plan and organise non-routine testing

Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge associated with planning and organising non-routine testing within the enterprise.

Application of the Unit

Application of the Unit This unit applies to non-routine testing associated with the product and process development for textile production.

Work may be conducted in small to large scale enterprises and may involve individual and team activities and can include liaison with specialist technicians.

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 planning and organising for safe and effective testing of textile products and materials. This unit also requires an ability to check the quality of outcomes, assess and analyse own work. Initiative and enterprise and problem solving will be used to combine product knowledge and testing skill to achieve reliable test results.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisites LMTTX4003A

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 Plan or develop tests	1.1 Relevant information is obtained to establish criteria for tests 1.2 Test is developed or planned to meet criteria, including testing at set stages, if required
2 Organise non-routine tests	2.1 Requirements are confirmed, if necessary 2.2 Equipment and resources required to perform the tests are obtained and prepared 2.3 Raw material, yarn, chemical mix or finished fabric is tested against specified quality standards using prescribed testing procedures and in accordance with OHS practices
3 Analyse results	3.1 Results of the tests are collated and analysed
4 Interpret and report results	4.1 Analysis is interpreted to determine performance and acceptability for production 4.2 Reports are prepared

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level

Demonstrates knowledge of:

- the elements and principles of testing and how they can be used to assist in assessing the quality of raw materials/products in the textile industry
- product and process specifications
- raw materials and their properties
- colour chemistry
- safety and environmental aspects of relevant enterprise activities
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- recording and reporting practices

Demonstrates skills to:

- effectively use test equipment
- analyse and interpret results
- communicate effectively with individuals, work groups and supervisors
- prepare and present reports and information in appropriate formats
- 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 to be considered	Demonstrates skills and knowledge to: • establish criteria for tests • develop and plan tests • ensure tests are conducted against specified quality standards • collate, analyse and interpret tests • communicate effectively with design team, customers, etc. • 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.

Tests may include:

- evenness testing
- moisture content
- dry fastness
- fibre construction
- fibre identification and quantitative analyses
- moisture retention
- wicking

Equipment and resources may include:

- weighing scales
- rulers templates
- strength testers
- conditioners or dryers
- single yarn testers
- abrasion testers
- pilling box
- chemicals

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 All