



Australian Government

Department of Education, Employment and Workplace Relations

LMFFT4007B Sample, inspect and test products to specifications

Revision Number: 1

LMFFT4007B Sample, inspect and test products to specifications

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the competency to take product samples, identify and apply authorised testing procedures, interpret test results and report findings within a furnishing enterprise.
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Application of the Unit

Application of the unit	
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil	

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Identify specifications and test procedures	1.1. Product quality specifications are read, drawings interpreted and test parameters are identified 1.2. Test methods for each required test parameter are identified and the most efficient test method is noted 1.3. Any requirement for testing by personnel external to the work area is identified and appropriate permission is obtained 1.4. Design features that impact on testing and inspection are identified
2. Select evidence	2.1. Appropriate conforming and/or non-conforming products, materials and/or waste are selected for testing in accordance with enterprise requirements 2.2. Observations of operators and copies of procedures are collected
3. Conduct and interpret tests	3.1. Tests are conducted following workplace procedures and results are documented 3.2. Comparisons of all data collected are made 3.3. Any recommendations are noted and considered for feasibility
4. Report findings	4.1. Findings of tests are documented 4.2. Any potential or existing problems and appropriate recommendations are identified and reported in accordance with enterprise procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- collect, organise and understand information related to quality checking processes, including the relevant technical, regulatory, environmental and safety requirements
- communicate ideas and information to enable clarification of the requirements, coordination of work with site supervisor, other workers and customers, and the reporting of outcomes and findings
- plan and organise activities, including the obtaining of equipment, systems and materials to avoid any backtracking, workflow interruptions or wastage
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity
- use mathematical ideas and techniques to correctly complete measurements and calculations required in quality checking processes and estimation of material requirements
- create and apply systematic problem solving techniques to anticipate problems, avoid re-working and avoid wastage
- use the workplace technology related to quality checking, including machinery, tools and equipment, calculators and measuring devices and computing/computer-aided systems

Required knowledge

- general quality systems theory
- sampling techniques for commonly encountered materials
- inspection techniques and faults common within the sector products
- testing techniques (destructive and non-destructive) relevant to the sector and related equipments/aids
- workflow in relation to required times and stages where quality checking is required

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Critical aspects of evidence

- Interpret work order and determine test requirements
- Apply safety requirements throughout the work sequence, including the use of personal protective clothing and equipment
- Follow work instructions, operating procedures and inspection practices to arrange/conduct a minimum of four different processes covering sampling, inspection and testing
- Analyse test results and interpret outcomes against requirements
- Modify activities to cater for variations in workplace contexts and environment
- Work effectively with others

Resource implications

Production or product finishing facility, testing equipment and procedures.

Method of assessment

Assessment methods must confirm consistency of performance over time and in a range of workplace relevant contexts.

Assessment should be by direct observation of tasks and/or samples of work and questioning on underpinning knowledge.

Assessment should be conducted over time and will generally be in conjunction with assessment of other units of competency.

Context of assessment

Assessment may occur on the job or in a simulated workplace facility with relevant equipment, simulated work instructions and deadlines.

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. 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) may also be included.

Unit scope

- This unit covers the work involved in collecting samples and their inspections and testing to check product quality
- Extent of sampling and the nature of inspection and testing will be undertaken in accordance with industry standards and practices and will reflect the type of product, the materials and processes used in its manufacture and its end use. It may include:
 - samples of raw materials
 - components,
 - assemblies
 - end products
- Materials to be sampled will represent those normally used by the enterprise in its production processes. They may include but are not limited to:
 - timber
 - metal alloys
 - glass, fabrics and textiles
 - plastics
 - leather
 - adhesives
 - fillers and finishes as appropriate

Unit context

- OHS requirements include legislation, building codes, material safety management systems, hazardous substances and dangerous goods codes and safe operating procedures
- Work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, authorised handling procedures and organisation insurance requirements
- Work requires individuals to demonstrate

RANGE STATEMENT	
	organisational and analytical ability, discretion, judgement and problem solving skills
Workplace environment	• Sampling, inspecting, testing and reporting of findings is undertaken in accordance with established enterprise procedures and practices • Work is generally performed with little external assistance and with minimal supervision or direction • Customers or suppliers of material to be sampled may be internal or external
Personal protective equipment	Personal protective equipment is to include that prescribed under legislation, regulations and enterprise policies and practices
Information and procedures	• Work procedures/instructions • Designer/drawer specifications and instructions • Quality systems documentation or equivalent containing sampling, inspecting and testing frequency and criteria • Organisation work specifications and requirements • Legislation/regulation/national and industry codes and practices relevant to the products • Quality and Australian standards and procedures

Unit Sector(s)

Unit sector	Furnishing Technology
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Competency field

Competency field	
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Co-requisite units

Co-requisite units		