



**Australian Government**

# **MSFFL2004 Moisture test timber and concrete floors**

**Release: 1**

# MSFFL2004 Moisture test timber and concrete floors

## Modification History

Release 1 - New unit of competency

## Application

This unit of competency covers moisture testing and formally reporting on the condition of timber and concrete floors. It applies to a wide variety of flooring technology operations in an on-site environment and involves application of skills and knowledge at a sub-trade and trade worker level.

Licensing, legislative or certification requirements may apply to this unit and relevant state/territory and local government agencies should be consulted to determine any necessary certification or licensing for undertaking flooring work. Access to construction sites requires certification of general induction training specified by the National Code of Practice for Induction for Construction Work (ASCC 2007).

## Pre-requisite Unit

## Competency Field

## Unit Sector

Flooring technology

## Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1	Prepare for work	1.1	Applicable work health and safety (WHS), legislative and organisational requirements relevant to moisture testing timber and concrete are verified and complied with
		1.2	Customer enquiry and relevant information are consulted to determine the type of proposed flooring operation and other work requirements
		1.3	Moisture content requirements for the proposed flooring are determined from manufacturer or workplace information

- 1.4 Tools, equipment and required materials are obtained and prepared for the work
- 2 Conduct moisture testing on timber flooring and components
  - 2.1 The type of floor construction materials and the building floor structure and substructure are identified
  - 2.2 Timber flooring is visually inspected to identify irregularities in moisture content
  - 2.3 Ventilation flow is confirmed and irregularities noted
  - 2.4 Floor joists, bearers and stumps are visually checked for moisture content irregularities
  - 2.5 Moisture testing of timber flooring, floor joists, bearers and stumps, and equilibrium moisture content (EMC) is completed in accordance with the approved process and standard
- 3 Conduct moisture testing on concrete floors
  - 3.1 The type of floor construction materials and the building floor structure and substructure are identified
  - 3.2 Concrete floor is visually inspected to identify irregularities in moisture content
  - 3.3 Moisture testing is completed in accordance with the approved process and Australian Standard
- 4 Notify findings of moisture tests
  - 4.1 Notification of the findings of the moisture tests is completed in accordance with the current and relevant Australian standards
  - 4.2 Copies of the notification are sent to appropriate personnel and suitably filed following workplace procedures

## Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

## Range of Conditions

Specifies 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. Range is restricted to essential operating conditions and any other variables essential to the work environment.

### Legislative requirements include:

- applicable legislation from all levels of government that affect organisational operation
- award and enterprise agreements
- industrial relations
- Australian Standards
- confidentiality and privacy
- WHS
- the environment
- equal employment opportunity (EEO)
- anti-discrimination
- relevant industry codes of practice
- duty of care and heritage

### WHS requirements include:

- Commonwealth, state or territory legislation and regulations
- organisational safety policies and procedures
- use of personal protective equipment
- firefighting equipment
- first aid equipment
- hazard and risk control and elimination of hazardous materials and substances
- manual handling, including lifting and carrying

### Organisational requirements include:

- legal, organisational and site guidelines
- policies and procedures relating to own role and responsibility
- quality assurance
- procedural manuals
- quality and continuous improvement processes and standards
- WHS

- emergency and evacuation
  - ethical standards
  - recording and reporting
  - access and equity principles and practices
  - equipment use, maintenance and storage
  - environmental management (waste disposal, recycling and re-use guidelines)
- Relevant information includes:**
- workplace procedures relating to the use and operation of moisture testing tools and equipment
  - workplace instructions, including job sheets, plans, drawings and designs
  - workplace procedures relating to notification and communications
  - manufacturer instructions for the use of moisture testing equipment and materials
- Tools and equipment include:**
- electrical resistance meter
  - timber probe
  - tape measure
  - hygrometer
  - thermometer probe
  - temperature gauge
  - relative humidity
  - electric drill
  - masonry drill bits
- Materials include:**
- timber strip flooring
  - construction sheet flooring
  - concrete floors
  - above grade, on grade and below grade floors
- Timber moisture tests include:**
- tests for moisture content of timber flooring, floor joists, bearers and stumps rotting, insect attack and cross-flow ventilation
- Concrete moisture tests include:**
- checks for moisture, damage to expansion joint, concrete surface for weakness or damage and for the presence of curing agents
  - invasive in-situ probe test (ASTM F2170)
- Inspection notifications include:**
- the type and number of moisture tests completed
  - inspection findings
  - suggested remedies to any faults identified
  - recommendations for the selected flooring

## **Unit Mapping Information**

Supersedes and is equivalent to LMFFL2004A Moisture test timber and concrete floors

## **Links**

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>