



**Australian Government**

# **Assessment Requirements for FWPTMM4213 Test finger jointed timber**

**Release: 1**

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## Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

## Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has tested two samples of finger jointed timber for bond strength and adhesive durability and analysed the test results.

In performing this task, the individual has:

- complied with workplace health and safety and environmental protection practices and/or procedures, including use of personal protective equipment (PPE) and safe disposal of waste materials
- complied with legislation, standards and codes of practice relevant to testing finger jointed timber
- selected and calibrated test equipment for testing operations
- collected, labelled and prepared samples
- conducted the tests
- recorded and reported test results and analysed test results to assist with the identification of production problems
- recommended corrective actions, as required.

## Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- key requirements of legislation, standards and codes of practice relevant to testing finger jointed timber
- types, purpose and procedure for finger jointed timber tests, including:
  - bond strength
  - adhesive durability
- finger jointing requirements for finger jointed timber product and their justification, including:

- shook requirements – moisture content, straight edges, square freshly cut ends, straight grain at join
- joint appearance
- glue bond durability, including influencing factors – adhesive storage, adhesive mixing, adhesive cure
- equipment for testing finger jointed timber product
- techniques and reasons for calibrating testing equipment for finger jointed timber product
- hazards associated with selection, labelling and physical testing of finger jointed product, including:
  - moving equipment
  - flying debris
  - rotating saw blades
- failures in finger jointed timber characteristics that are determined by test results, including:
  - glue failure
  - shallow wood fibre failure
  - wood fibre failure
  - breaking load (Modulus of Elasticity; Modulus of Rupture)
- problems associated with testing process, including:
  - calibration of test equipment
  - test accuracy
  - sample quality
  - faulty material
  - defects
- workplace procedures specific to sampling and testing finger jointed timber product, including:
  - health and safety, including isolation procedures, lock-outs, emergency stops, machine guarding and wearing of appropriate PPE
  - environmental protection, including disposing, recycling and reusing timber and other waste
  - use of testing equipment
  - sampling and testing processes
  - communication reporting lines
  - recording and reporting on test process and test results.

## Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in a timber product manufacturing plant or an environment that accurately represents workplace conditions

- resources, equipment and materials:
  - finger jointed timber
  - test equipment
  - PPE required for testing finger jointed timber
- specifications:
  - workplace health and safety and environmental protection policies and/or procedures applicable to finger jointed timber testing operations
  - workplace procedures for finger jointed timber testing operations
  - workplace procedures for calibration of testing equipment.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>