



Australian Government

FWPTMM4213 Test finger jointed timber

Release: 1

FWPTMM4213 Test finger jointed timber

Modification History

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

Application

This unit of competency describes the skills and knowledge required to collect, prepare and test samples of finger jointed timber. The unit includes interpreting test results for the identification of problems in production and making necessary changes to processes.

The unit applies to individuals who are engaged in finger jointed timber production.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Timber Manufactured Products (TMM)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for testing finger jointed timber	1.1 Determine job requirements from work order or instruction and, where required, seek clarification from appropriate personnel 1.2 Confirm workplace health and safety and environmental protection practices and/or procedures for task, including use of personal protective equipment 1.3 Confirm legislation, standards and codes of practice relevant to

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	testing finger jointed timber 1.4 Identify and assess hazards and take actions to mitigate risks related to testing operations 1.5 Consult appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.6 Select tools and equipment for testing operations, and check for serviceability according to workplace procedures 1.7 Collect, label and prepare samples for testing according to workplace procedures
2. Calibrate equipment for testing finger jointed timber	2.1 Set up equipment for testing strength of finger jointed timber 2.2 Calibrate test equipment according to manufacturer instructions and workplace procedures 2.3 Record calibration results according to workplace procedures
3. Conduct test on finger jointed timber and analyse test results	3.1 Test sample according to workplace procedures 3.2 Collate information on test results 3.3 Analyse and record test results 3.4 Store samples according to workplace procedures
4. Finalise test on finger jointed timber	4.1 Communicate test results according to workplace procedures 4.2 Report sub-standard product test results, assist with identification of production problems and recommend corrective actions 4.3 Modify test sampling process in response to identified testing problems and production changes 4.4 Record and report testing outcomes

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Interpret routine information from industry guides and standard

Skill	Description
	references on testing techniques for finger jointed timber
Writing	• Complete labels legibly and accurately with correct details of sample
Oral communication	• Ask open and closed questions and use active listening techniques to clarify contents of work orders • Provide oral reports on testing activities
Numeracy	• Measure quantities and dimensions of samples • Perform routine calculations and interpret numerical results of testing procedures

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPTMM4213 Test finger jointed timber	FWPCOT3208 Test strength of joints	Unit redeveloped to address a relevant skill or task that is required by industry	Not equivalent

Links

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

Assessment Requirements for FWPTMM4213 Test finger jointed timber

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:

- shoo 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>