

<b>Title</b>	<b>Test wood panels and constituent materials</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of the fundamentals of testing wood panels and constituent materials; select and apply tests to wood panels and constituent materials; and analyse, record, and report test data from testing wood panels and constituent materials.
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<b>Classification</b>	Wood Manufacturing - Generic Skills > Wood Panel Manufacturing Skills
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation  
Health and Safety at Work Act 2015.  
Resource Management Act 1991.
- 2 Definitions  
*Accepted industry practice* refers to approved codes of practice and standardised procedures accepted by the wider wood manufacturing industry as examples of best practice.  
*Corrective action* may include actions such as communication to management, communication to on-site technical support person, communication to off-site technical support person, cleaning, communication with maintenance staff, recalibration, or changes made to the operating system in accordance with workplace procedures.  
*Workplace procedures* refer to documented policies and procedures set by the organisation carrying out the work, and to documented or other directions provided to staff, and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, site specific procedures, site safety procedures, equipment operating procedures, quality assurance procedures, product quality specifications, references, approved codes of practice, housekeeping standards, environmental considerations, on-site briefings, supervisor’s instructions, and procedures to comply with legislative and local body requirements relevant to the wood manufacturing industry sector.
- 3 Range  
Wood panel and constituent materials tests may include but are not limited to – thickness, density, internal bond, glue line, moisture content, modulus of rupture, modulus of elasticity, one hour thickness swell, water absorption, through panel density, pH, gelation test, resin/glue viscosity, glue spread weight, brix test for

hardener, screw pull, stress test, formaldehyde, edge swell, shive test, hydro linear expansion, density profile, relative humidity, bonding agent, final product testing; evidence is required for seven wood panel and constituent materials tests.

#### 4 Assessment information

All activities and evidence must meet workplace procedures and accepted industry practice.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of the fundamentals of testing wood panels and constituent materials.

#### Performance criteria

- 1.1 Reasons for testing are explained in terms of process control, quality assurance and continuous improvement.
- 1.2 Principles of tests of raw materials and tests for product characteristics are explained.
- 1.3 Operation of testing equipment used in the laboratory is explained.
- 1.4 Frequencies of testing are identified.
- 1.5 Hazards associated with laboratory testing are identified, and the role of safety features in the laboratory is explained.

### Outcome 2

Select and apply tests to wood panels and constituent materials.

#### Performance criteria

- 2.1 Safe work practices associated with selecting and applying tests are identified and used.  
  
Range practices may include but are not limited to – isolation procedures, lock outs, emergency stops, machine guarding, wearing appropriate safety equipment.
- 2.2 Tests to be applied are identified.
- 2.3 Test equipment is selected and checked.
- 2.4 Samples are selected and prepared.
- 2.5 Tests are applied in accordance with manufacturer's specifications.

### Outcome 3

Analyse, record, and report test data from testing wood panels and constituent materials.

### Performance criteria

- 3.1 Test data is recorded and reported.
- 3.2 Results are analysed, and corrective actions are identified and communicated.

<b>Planned review date</b>	31 December 2024
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 1995	31 December 2012
Review	2	24 November 1995	31 December 2012
Revision	3	12 February 1998	31 December 2012
Review	4	25 March 1999	31 December 2012
Review	5	29 March 2005	31 December 2012
Rollover and Revision	6	23 February 2007	31 December 2013
Review	7	19 April 2012	N/A
Review	8	23 April 2020	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0013
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

### Comments on this unit standard

Please contact Competenz [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.