

<b>Title</b>	<b>Grade and test wooden poles</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare to grade and test wooden poles; grade and test wooden poles; and complete grading and testing of wooden poles.
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<b>Classification</b>	Solid Wood Manufacturing > Pole and Post Manufacturing
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation and references  
 Health and Safety at Work Act 2015.  
 NZS 3605: 2001; *Timber piles and poles for use in building*.  
 NZS 3631: 1988; *New Zealand timber grading rules*.  
*Approved Code of Practice for Safety and Health in Forest Operations* (Wellington: WorkSafe, 2012), available at <https://worksafe.govt.nz/topic-and-industry/forestry/safety-and-health-in-forest-operations/>.
- 2 Definitions  
*Accepted industry practice* – approved codes of practice and standardised procedures accepted by the wider wood manufacturing industry as examples of best practice.  
*Wooden poles* – power poles, telephone poles, building poles, large retaining wall poles.  
*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, codes of practice, 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 industry sector.
- 3 Assessment information  
 All activities and evidence must meet workplace procedures and accepted industry practice.

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## Outcomes and performance criteria

### Outcome 1

Prepare to grade and test wooden poles.

#### Performance criteria

- 1.1 Testing method for wooden poles is identified.
- Range pole type, required bending moment, proof load, duration, total load.
- 1.2 The number of wooden poles to be tested is specified.
- 1.3 Test requirements for testing wooden poles are explained.
- 1.4 Grading rules are listed.
- Range may include but is not limited to – maximum knot size, sum of knots, distortion, spiral grain, nodal swelling, end splits, number of growth rings between pith and sawn faces.

### Outcome 2

Grade and test wooden poles.

#### Performance criteria

- 2.1 The static tester is set up to test wooden poles.
- 2.2 Safe work practices are explained and followed.
- Range may include but is not limited to – the wearing of appropriate safety equipment, safe use of any related machinery and equipment, emergency stops, isolation procedures, lockouts, machine guards, correct chainsaw use, forklift or loader safety; evidence of wearing appropriate safety equipment and a minimum of three others are required.
- 2.3 Wooden poles are visually graded in accordance with NZS 3605: 2001 and site requirements.
- Range evidence of grading 10 poles are required.
- 2.4 Product adjustment factors for shaving, steaming, and moisture condition are identified.

2.5 Wooden poles are tested.

Range evidence of testing of 10 poles are required.

### Outcome 3

Complete testing of wooden poles.

### Performance criteria

3.1 Wooden pole test results are analysed in accordance with NZS 3605.

3.2 Options for using wooden poles that have failed testing are stated.

3.3 Tools, equipment, and materials are accounted for and returned to storage.

3.4 Work area is left clean and tidy, and ready for next use.

3.5 Documentation is completed, communicated, and filed.

Range production, maintenance, quality records.

<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	27 February 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.