

<b>Title</b>	<b>Grade roundwood products</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of roundwood product grades and end usage; grade roundwood products; identify final product grade and allocate product to the next process; and complete grading activities.
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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.  
 Resource Management Act 1991.  
*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/>.  
*A Guide for Safety with Chainsaws* (Wellington: WorkSafe, 2011) available at <https://worksafe.govt.nz/topic-and-industry/machinery/saws-and-shears/chainsaws/>.
- 2 Definitions  
*Accepted industry practice* – approved codes of practice and standardised procedures accepted by the wider wood manufacturing industry as examples of best practice.  
*Large-end diameter (LED)* refers to the measurement of the longest diameter through the geometric centre of the log at the large end.  
*Roundwood* refers to round, and part-round, wooden posts and poles that are shorter than 3.6 metres.  
*Small end diameter (SED)* refers to the smallest diameter along a pole or roundwood product, usually found at one end.  
*Workplace procedures* refer 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

Demonstrate knowledge of roundwood product grades and end usage.

#### Performance criteria

1.1 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.

1.2 Grades of roundwood products, and end-use of each product, are identified and explained.

### Outcome 2

Grade roundwood products.

#### Performance criteria

2.1 Roundwood products are graded to specifications.

Range grading of product may include but is not limited to – length, diameter (LED and SED), knot diameters, knot whorls, straightness, physical and mechanical defects; evidence of a minimum of five products covering five specifications overall is required.

2.2 Calibrated measuring equipment is used to ensure accuracy of grades of roundwood products.

2.3 Defective products are identified and removed and reprocessed.

Range defective product includes but is not limited to – dimensional variations, physical imperfections, biological defects.

2.4 Rate of production is maintained, and any variation is managed.

### Outcome 3

Identify final product grade and allocate product to the next process.

**Performance criteria**

- 3.1 Correct diameter, graded face, and final product shape are identified, and product is allocated to the next process.

**Outcome 4**

Complete grading activities.

**Performance criteria**

- 4.1 Tools, equipment, and materials are accounted for and returned to storage.
- 4.2 Machine and work area are left clean and tidy, and ready for next use.
- 4.3 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	28 April 2003	31 December 2012
Review	2	18 December 2006	31 December 2012
Review	3	20 October 2011	N/A
Review	4	26 March 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.