

Title	Grind bandwheels		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: demonstrate knowledge of hazards and safe work practices associated with grinding bandwheels; clean and prepare machine for bandwheel grinding; prepare grinding equipment; grind bandwheel; and check bandwheel grinding.
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Classification	Solid Wood Manufacturing > Saw Doctoring
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Available grade	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.
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 sector.
- 3 Range
Bandwheels – flat or crown.
- 4 Assessment information
All activities and evidence must be in accordance with workplace procedures and accepted industry practice.
- 5 Recommended unit standards for entry: Unit 15763, *Demonstrate knowledge of the grinding of bandwheels*.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of hazards and safe work practices associated with grinding bandwheels.

Performance criteria

1.1 Hazards associated with grinding bandwheels are identified and actions to be taken to manage the hazards are described.

Range hazards may include but are not limited to – grinding wheel disintegration, loose grinding wheel, exposure to grinding coolant.

1.2 Safe work practices associated with grinding bandwheels are identified and applied.

Range practices may include but are not limited to – isolation procedures, lock-outs, emergency stops, machine guarding, wearing appropriate safety equipment; evidence of five is required.

Outcome 2

Clean and prepare machine for bandwheel grinding.

Performance criteria

2.1 Bandsaw machine, bandwheels, and work areas are cleaned of all foreign matter that could affect grinding operations.

2.2 Scraper, guides, guards, and shear plate are removed in accordance with manufacturer's specifications.

2.3 Bandwheel is checked for wear.

Outcome 3

Prepare grinding equipment.

Performance criteria

3.1 Grinding equipment is checked for wear and is lubricated in accordance with manufacturer's specifications.

Range may include but are not limited to – barrel slides, grinding wheel, grinding head.

3.2 Grinding stone is selected to suit bandwheel composition.

3.3 Barrel is set up for grinding.

Range may include but are not limited to – brass tee square, pointer, engineer's square, dial indicator gauge.

3.4 Personal safety equipment is used.

Range eye protection, gloves (if required), hearing protection, respiration mask (if required).

Outcome 4

Grind bandwheel.

Performance criteria

4.1 Grinding covers whole face of the wheel.

4.2 All wear is removed.

4.3 Wheel face is ground in accordance with manufacturer's specifications.

Range flat or crown.

4.4 Bandwheel edges are deburred after grinding.

Outcome 5

Check bandwheel grinding.

Performance criteria

5.1 Bandwheel face is checked for hollows and ridges, using a straight edge held at right angles to the wheel edge and at right angles to the wheel face.

5.2 Bandwheel is measured with steel tape to check circumference.

5.3 Scrapers, guides, guards, and shear plate are replaced or repaired.

5.4 Machine is test run and saw tracking is checked.

5.5 Any identified faults are rectified.

Planned review date	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 January 1994	31 December 2012
Review	2	24 October 1996	31 December 2012
Review	3	10 February 1999	31 December 2012
Review	4	18 December 2006	31 December 2012
Review	5	15 April 2011	N/A
Review	6	24 September 2020	N/A

Consent and Moderation Requirements (CMR) reference

0013

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 if you wish to suggest changes to the content of this unit standard.