

Title	Bench bandsaws		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to: demonstrate knowledge of hazards and safe work practices associated with benching bandsaws; prepare bandsaws for benching; calibrate and align bandsaw benching equipment and explain the main function of tools and equipment used for calibration and alignment; and level; tension; and back crown bandsaws.
----------------	--

Classification	Solid Wood Manufacturing > Saw Doctoring
-----------------------	--

Available grade	Achieved
------------------------	----------

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 Assessment information
All work practices must be in accordance with workplace procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of hazards and safe work practices associated with benching bandsaws.

Performance criteria

- 1.1 Hazards associated with benching bandsaws are identified and actions to be taken to manage the hazards are described.
- Range hazards may include but are not limited to – moving equipment, dust, noise, manual handling; evidence of three is required.
- 1.2 Safe work practices associated with benching bandsaws 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

Prepare bandsaws for benching.

Performance criteria

- 2.1 Saw and work areas are cleaned of all foreign matter that could affect benching operations.
- 2.2 Benching equipment and tools are checked for wear and are lubricated according to manufacturer's specifications.
- Range may include but is not limited to – anvils, stretcher rolls, bridge, back gauge, weights, tension gauges, levelling rolls, hammers, straight edge, lighting, safety equipment.

Outcome 3

Calibrate and align bandsaw benching equipment and explain the main function of tools and equipment used for calibration and alignment.

Performance criteria

- 3.1 The tools and equipment used to calibrate and align benching equipment are identified and their main function is explained.
- Range measuring tools, alignment tools.
- 3.2 Benching equipment components are checked for wear.
- Range components may include but are not limited to – anvils, rolls, bearings, support slides.
- 3.3 Any worn benching equipment components are repaired or replaced.

- 3.4 Benching equipment components are calibrated in accordance with manufacturer's specifications.

Range includes but is not limited to – levelled, aligned.

Outcome 4

Level bandsaws.

Performance criteria

- 4.1 Saw is checked for level using a straight edge held at right angles and vertical to the bandsaw face.

- 4.2 Lumps are removed manually.

Range cross-faced hammer or stretcher rolls.

- 4.3 Saw level is checked for conformance to a straight edge along and across the saw.

Outcome 5

Tension bandsaws.

Performance criteria

- 5.1 Tension requirements are located using a tension gauge held at right angles to the saw face.

- 5.2 Tension is altered to meet tension requirements.

Range stretcher rolls or heat unit.

- 5.3 Overall tension is checked for conformance to the tension gauge held at right angles to the saw face.

- 5.4 The front and back tyres and body of the saw are identified.

Outcome 6

Back crown bandsaws.

Performance criteria

- 6.1 Back gauge is calibrated to correct zero.

- 6.2 Back crown requirements are identified using a back gauge.

- 6.3 Back is rolled so that back crown conforms to back gauge setting with a total variance of no more than plus or minus one thousandths of an inch (or its metric equivalent 25.4 micrometre).

6.4 The relationship between level, tension, and back crown is maintained.

Planned review date	31 December 2024
----------------------------	------------------

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.