

Title	Demonstrate knowledge of grinding finger jointer cutterhead in solid wood manufacturing		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to describe, for solid wood manufacturing: hazards and safe working practices associated with grinding a finger jointer cutterhead; the operation and operating principles of a grinder; the preparation required before grinding a finger jointer cutterhead; the process for mounting and adjusting a finger jointer cutterhead; and the grinding process for a finger jointer cutterhead.
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Classification	Solid Wood Manufacturing > Finger Jointing
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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 industry sector.
- 3 Range
Competence must be demonstrated using one of the two standard cutterhead types used in New Zealand – solid profile or milled to pattern.
- 4 Assessment information
All activities and evidence must meet workplace procedures and accepted industry practice.

- 5 Recommended unit standard for entry: Unit 669, *Demonstrate knowledge of grinding wheels and fluids.*
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Outcomes and performance criteria

Outcome 1

Describe hazards and safe working practices associated with grinding a finger jointer cutterhead in solid wood manufacturing.

Performance criteria

- 1.1 Hazards associated with grinding a finger jointer cutterhead and actions to be taken to manage them are described.

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

- 1.2 Safe work practices associated with grinding a finger jointer cutterhead are described.

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

Outcome 2

Describe the operation and operating principles of a grinder in solid wood manufacturing.

Performance criteria

- 2.1 Purpose and function of the grinder are described.

- 2.2 Operating capability of the grinder is described.

- 2.3 Operating components of the grinder are described.

Range components may include but are not limited to – grinding wheel, dividing head, arbor, filter, coolant pump.

- 2.4 Roles and responsibilities of the tool room operator in terms of grinding are described.

Outcome 3

Describe the preparation required before grinding a finger jointer cutterhead in solid wood manufacturing.

Performance criteria

3.1 The preparation required before grinding a finger jointer cutterhead is described.

Range may include but is not limited to – cleaning work area, selecting grinding wheel and grinder speed, checking grinder wheels are fit for purpose and without faults, checking grinder operation, setting grinder angle, setting grinder feed and increments.

Outcome 4

Describe the process for mounting and adjusting a finger jointer cutterhead in solid wood manufacturing.

Performance criteria

4.1 The process for mounting and adjusting a finger jointer cutterhead is described.

Range may include but is not limited to – locking the cutterhead to the arbor, setting the dividing head, adjusting clearance between grinding wheel and cutters, use and storage of grinding coolants.

Outcome 5

Describe the grinding process for a finger jointer cutterhead in solid wood manufacturing.

Performance criteria

5.1 The process for grinding a finger jointer cutterhead is described.

Range may include but is not limited to – checking the operation of the grinder after the first pass; checking and maintaining coolant flow rate and cleanliness; grinding cutter heads to obtain required edge, cutting angles, and finger jointer hook gauge; sharpening cutterhead edges to specified angles and ensuring they are free from defects.

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	25 June 2020	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.