

Title	Tooth circular saws		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of hazards and safe work practices associated with tothing circular saws; prepare circular saws for tothing; form teeth; and profile circular saw blades.
----------------	--

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 activities and evidence 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 tothing circular saws.

Performance criteria

1.1 Hazards associated with tothing circular saws are identified and actions to be taken to manage the hazards are described.

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

1.2 Safe work practices associated with tothing circular saws 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.

Outcome 2

Prepare circular saws for tothing.

Performance criteria

2.1 Saws and saw blanks are selected to meet customer requirements.

Range diameter, gauge, steel type, rip or cross cut.

2.2 Tothing equipment is checked for wear and is lubricated according to manufacturer's instructions.

Range cutting equipment, scribe, tooth punch machine or tooth indexer, grinding machine, benching equipment, safety equipment.

2.3 Saws and saw blanks are pre-formed.

Range pre-formed – stripped or cut to required diameter (bore drilled and/or punched), bore size tolerance of plus or minus 0.10 mm.

2.4 Tooth points (gullet depth) and hook angles are calculated to meet customer requirements, conform to saw diameter, and are scribed to customer requirements.

Outcome 3

Form teeth.

Performance criteria

3.1 Forming equipment is set up and operated.

Range tooth punch machine or tooth indexer.

3.2 Tooth profiles are formed to meet customer requirements.

Range grinding, punching or cutting.

3.3 Saw blade is checked for punching damage and remedial action is taken to meet customer requirements.

Outcome 4

Profile circular saw blades.

Performance criteria

4.1 Profile equipment is set up and operated.

Range automatic tooth grinder.

4.2 Tooth shape and gullet depth are set to meet customer requirements and are even for the whole saw.

4.3 Saw is checked for grinding burns and any remedial action required is taken.

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	10 February 1999	31 December 2014
Review	2	18 December 2006	31 December 2014
Review	3	15 April 2011	31 December 2014
Review	4	20 November 2014	N/A
Review	5	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.