

<b>Title</b>	<b>Demonstrate knowledge of saw tooth profiles in saw doctoring</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of the design requirements of saw tooth profiles and the factors that affect saw tooth design.
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<b>Classification</b>	Solid Wood Manufacturing > Saw Doctoring
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 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.

*Cross cut* refers to cutting across the wood grain.

*Rip* refers to cutting in line with the wood grain.

*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.

### 2 Assessment information

All activities and evidence must be in accordance with workplace procedures and accepted industry practice.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of the design requirements of saw tooth profiles.

**Performance criteria**

1.1 The function and required performance of components of a tooth profile are described.

Range may include but is not limited to – hook angle, sharpness angle, back clearance angle, gullet depth, gullet radius, pitch, tooth face, top bevel angle.

1.2 Cross cut and rip saw profiles and cutting angles are identified.

Range cutting angles include hook, sharpness, back clearance, top bevel, tooth geometry.

**Outcome 2**

Demonstrate knowledge of the factors that affect saw tooth design.

**Performance criteria**

2.1 Variables affecting performance and job outcomes of the tooth profiles are explained.

Range saw type, depth of cut, tooth bite, kerf, feed speed and saw speed.

2.2 Tooth profile designs, uses, and material types are identified.

Range may include but is not limited to – triple chip, variable pitch, skip tooth, combination.

<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	25 November 2000	31 December 2020
Review	2	18 December 2006	N/A
Review	3	24 September 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.