

<b>Title</b>	<b>Set and operate a dimension saw to cut furniture components</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate and apply knowledge of: preparing to set and operate a dimension saw; setting a dimension saw for cutting furniture components; and operating a dimension saw to cut angles, bevels, rebates, trenching or grooving.
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<b>Classification</b>	Furniture > Furniture and Cabinet Making
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### Guidance Information

- 1 **Assessment information**  
This unit standard must be assessed against on-job.  
All activities and performance criteria must be carried out in accordance with worksite policies and procedures.
- 2 **Range**  
Demonstration of competence must include cutting components with at least three of the following features – angles, bevels, rebates, trenching or grooving.
- 3 **Personal protective equipment, appropriate to job requirements, must be selected and used in accordance with worksite policies and procedures and manufacturer's instructions.**
- 4 **Reference**  
Guidance for woodworking machinery, available at <https://worksafe.govt.nz/topic-and-industry/machinery/woodworking>.
- 5 **Definitions**  
A *dimension saw* is an accurate cutting saw which cuts both timber and sheet material to finished dimensions. The two main functions are to cut to length (crosscut) and cut to width (rip). The blade can also be tilted to angles up to 45 degrees. Therefore, dimension saws are also often used for cutting bevels, rebates, trenches, grooves, simple angles, and compound angles.  
*Manufacturer's instructions* are instructions provided by manufacturers of substances, equipment, and machinery used in furniture making. These instructions may include details on safe and correct handling, use and storage of substances and/or details on substance properties. Examples are labels on substance containers, product data sheets, and operator's manuals.  
*SOIs* refer to safe operating instructions which are documented instructions attached to machines which detail requirements for safe operation of the particular machine.  
*Worksite policies and procedures* refer to documented policies and to documented or other directions provided to staff. These may include, but are not limited to, ways of managing health and safety, environmental considerations, quality, and production,

and must conform to legislation. Examples include standard operating procedures, company health and safety plans, on-site briefings, and supervisor's instructions.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate and apply knowledge of preparing to set and operate a dimension saw.

#### Performance criteria

- 1.1 Job specifications are obtained and interpreted.
- Range material, component dimensions and features, timeframe.
- 1.2 Types of saw blades are explained in terms of the materials they are used to cut.
- Range combination, carbide tipped, hollow ground, z-tooth.
- 1.3 Saw blade is selected in accordance with job specifications.
- 1.4 Materials are selected in accordance with job specifications.
- 1.5 Environmental and safety requirements are met.
- Range electrical power, lighting, ventilation, dust extraction.

### Outcome 2

Demonstrate and apply knowledge of setting a dimension saw for cutting furniture components.

Range three of – angles, bevels, rebates, trenching or grooving.

#### Performance criteria

- 2.1 Fences, safety guards, and blades are secured to machine in accordance with job specifications and manufacturer's instructions.
- 2.2 Machine is set in accordance with job specifications and manufacturer's instructions.
- Range saw blade tilted, stops, saw height.
- 2.3 Riving knife is checked and confirmed to be in position and securely fixed to machine in accordance with manufacturer's instructions.
- 2.4 Routine maintenance of equipment is explained in accordance with manufacturer's instructions.
- Range blades, tables, lubrication, pulleys, belts.

**Outcome 3**

Demonstrate and apply knowledge of operating a dimension saw to cut angles, bevels, rebates, trenching or grooving.

Range three of – angles, bevels, rebates, trenching or grooving.

**Performance criteria**

- 3.1 Pre-start checks are performed in accordance with the manufacturer's recommendations.
- 3.2 Machine is operated in accordance with manufacturer's instructions and SOIs.
- 3.3 Components are monitored throughout production in accordance with job specifications.
- 3.4 Possible causes of components not meeting job specifications and their corrective actions are explained.

Range machine variation, loading of component, unclear work surface, condition of blades.

- 3.5 Angles, bevels, rebates, and trenches or grooves are cut in accordance with job specifications.
- 3.6 Machine and work area are made clean, clear, and safe.

<b>Planned review date</b>	31 December 2025
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	19 June 2009	N/A
Review	2	28 January 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0173
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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.