

Title	Set a spindle moulder to profile wooden furniture components		
Level	4	Credits	8

Purpose	People credited with this unit standard are able to demonstrate and apply knowledge of preparing to set a spindle moulder to shape and profile wooden furniture components; set a spindle moulder with cutter-head, jig, and copy collar to shape wooden furniture components; and set a spindle moulder with saw blade, jig, and jig guide to groove shaped wooden furniture components.
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Classification	Furniture > Furniture and Cabinet Making
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Available grade	Achieved
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Guidance Information

- 1 **Assessment information**
This unit standard may be assessed against on-job or off-job. Job specifications, equipment used, and job output must conform to current commercial industry practice. All activities and performance criteria must be carried out in accordance with worksite policies and procedures.
- 2 **Range**
Demonstration of competence must include setting of straight knife cutters, profiled knife cutters, saws, and jig guide. Any of the following jig guides may be set to demonstrate competence – copy collar, ring fence, wooden shaped fence.
- 3 All evidence requirements in this unit standard should comply with the *Safety Rules for Operators of Spindle Moulders*, Department of Labour (1983), which is available at: www.books.google.co.nz.
- 4 Personal protective equipment, appropriate to job requirements, must be selected and used in accordance with manufacturer's instructions.
- 5 **Definitions**
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.
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. For the purposes of this unit standard worksite policies and procedures may also refer to the policies and procedures of an off-job training site.

Outcomes and performance criteria

Outcome 1

Demonstrate and apply knowledge of preparing to set a spindle moulder to shape and profile wooden furniture components.

Performance criteria

- 1.1 Job specifications are obtained and interpreted.
- Range profile, material, component dimensions, number of components, timeframe.
- 1.2 Cutting equipment is explained in terms of the material it cuts.
- Range solid profile cutter head, removable cutter, saw blades.
- 1.3 Safety guard, cutter-head, knives, and saw blades are selected in accordance with job specifications.
- 1.4 Materials and jig are selected in accordance with job specifications.
- 1.5 Environmental and safety requirements are met.
- Range electrical power, lighting, ventilation, dust extraction fans.
- 1.6 Routine maintenance is explained in accordance with manufacturer's instructions.
- Range cutters, heads, saw blades, lubrication, vee belts.

Outcome 2

Set a spindle moulder with cutter-head, jig, and copy collar to shape wooden furniture components.

Performance criteria

- 2.1 Cutters are selected in accordance with job specifications and secured in the cutter-head in accordance with manufacturer's instructions.
- 2.2 Machine is isolated from the power sources during set-up.
- 2.3 Cutter-head is secured on the spindle in accordance with manufacturer's instructions.

- 2.4 Spindle moulder is set in accordance with job specifications.
Range cutter height, jig, copy collar.
- 2.5 Cage guard is set and secured in accordance with job specifications.
- 2.6 Machine speed is selected in accordance with manufacturer’s instructions.
- 2.7 A component is secured in the jig.
- 2.8 Test piece is run and checked against job specifications.

Outcome 3

Set a spindle moulder with saw blade, jig, and jig guide to groove shaped wooden furniture components.

Performance criteria

- 3.1 Machine is isolated.
- 3.2 Saw blade is secured on spindle in accordance with manufacturer’s instructions.
- 3.3 Spindle moulder is set in accordance with job specifications.
Range saw blade height, jig guide, jig.
- 3.4 Cage guard is set and secured in accordance with job specifications.
- 3.5 Machine speed is selected in accordance with manufacturer’s instructions.
- 3.6 A component is secured in the jig.
- 3.7 Test piece is run and checked against job specifications.
- 3.8 Work area is left clean, clear, and safe.

Replacement information	This unit standard and unit standard 25541 replaced unit standard 9794.
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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	19 June 2009	31 December 2018
Review	2	19 March 2015	N/A
Review	3	10 December 2020	N/A

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