

Title	Operate a spindle moulder to produce wooden furniture components		
Level	3	Credits	6

Purpose	People credited with this unit standard are able to: prepare to operate a spindle moulder; prepare materials for furniture making using a spindle moulder; and demonstrate and apply knowledge of operating a spindle moulder to produce 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.
- 2 **Range**
Competence must be demonstrated for a minimum of five different processes, which may include but are not limited to – saw blades, adjustable saws, drunken collars, rebate heads, solid profile heads, straight knives, shaped knives, tilting spindle, break-through fence, copy collar, ring fence, pressure springs, power feed, reverse cutting, fitting a back stop.
- 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**
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. 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

Prepare to operate a spindle moulder.

Performance criteria

- 1.1 Job specifications are obtained and interpreted.
Range quantity, material, size and shape.
- 1.2 Machine and other equipment are safely isolated from power sources during set-up in accordance with manufacturer's instructions.
- 1.3 Environmental and safety requirements are met.
Range electrical power, lighting, ventilation, dust extraction.

Outcome 2

Prepare materials for furniture making using a spindle moulder.

Performance criteria

- 2.1 Materials are obtained in accordance with job specifications.
- 2.2 Materials are checked for defects and replaced if necessary.
Range any of – splits, timber shakes, grain direction, surface damage.
- 2.3 Materials that do not conform to job specifications are identified and disposed of.
- 2.4 Materials are delivered to machine and ergonomically positioned.

Outcome 3

Demonstrate and apply knowledge of operating a spindle moulder to produce wooden furniture components.

Performance criteria

- 3.1 Pre-start checks are performed in accordance with the manufacturer's recommendations.

- 3.2 Machine is operated in accordance with SOIs.
- 3.3 Components are monitored during operation 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, jig damage.
- 3.5 Components are produced to specification and within the time limits in accordance with job specifications.
- 3.6 Machine and work area are made clean, clear, and safe.

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	7 May 1997	31 December 2018
Review	2	26 February 2002	31 December 2018
Review	3	19 June 2009	31 December 2018
Review	4	19 March 2015	N/A
Review	5	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.