

<b>Title</b>	<b>Make a machining jig for a spindle moulder or overhead router to machine wooden furniture components</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare to make a machining jig for a spindle moulder or overhead router; and make, a machining jig for a spindle moulder or overhead router, to machine wooden furniture components.
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<b>Classification</b>	Furniture > Furniture and Cabinet Making
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<b>Available grade</b>	Achieved
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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**  
Competence must be demonstrated using one of – spindle moulder jig, overhead router jig;  
competence may be demonstrated on either a Computer Numerical Controlled machine or standard wood working machine.
- 3 **Personal protective equipment, appropriate to job requirements, must be selected and used in accordance with manufacturer's instructions.**
- 4 **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.

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## Outcomes and performance criteria

### Outcome 1

Prepare to make a machining jig for a spindle moulder or overhead router to machine wooden furniture components.

#### Performance criteria

- 1.1 Job specifications are obtained and interpreted.
- Range component length and thickness, component shape, number of cycle runs, type of material being machined.
- 1.2 Jig material is selected in accordance with job specifications.
- 1.3 Jigs' construction is designed and sketched in accordance with job specifications.
- Range spindle moulder jig – stable, durable, clamp or hold, cleats, lead in, lead out;  
overhead router jig – stable, durable, clamp or hold, cleats, guide pin template.
- 1.4 Features of the jig are explained in terms of their contribution to safe use of the jig during operation.

### Outcome 2

Make a machining jig for a spindle moulder or overhead router to machine wooden furniture components.

#### Performance criteria

- 2.1 Sourced component or shaped profile component for which the jig is to be made is obtained in accordance with job specifications.
- 2.2 Component is measured to determine the dimensions for operation in accordance with job specifications.
- 2.3 Jig base board is selected in accordance with job specifications.
- 2.4 Shaped profile is fixed to or shaped on to the base board in accordance with job specifications.
- Range spindle moulder jig – must include but is not limited to – lead in, lead out;  
overhead router jig – must include but is not limited to – guide pin groove or feed rollers guide.
- 2.5 Cleats are fixed to the jig to locate the shaped component position in accordance with job specifications.

- 2.6 Handles are fixed to the jig in accordance with job specifications.
- 2.7 Work piece is held in position.  
Range one of – holding pins, clamp, swivel cleat.
- 2.8 Test piece is run, and performance of the jig production is checked with sample in accordance with job specifications.
- 2.9 Jig is named and labelled in accordance with job specifications and instructions for using jig are written.
- 2.10 Jig is stored safely and securely.
- 2.11 Machine and work area are made clean, clear, and safe.

<b>Replacement information</b>	This unit standard, unit standard 18900, and unit standard 18902 replaced unit standard 2249.
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<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	26 February 2002	31 December 2018
Review	2	19 June 2009	31 December 2018
Review	3	19 March 2015	N/A
Review	4	10 December 2020	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.