

Title	Operate an overhead router to shape furniture components		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to demonstrate and apply knowledge of: preparing to operate an overhead router; and operating an overhead router, to shape 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 operating the router with a jig and guide pin.
- 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

Demonstrate and apply knowledge of preparing to operate an overhead router to shape furniture components.

Performance criteria

- 1.1 Job specifications are obtained and interpreted.
- Range material, number of components, dimensions of the component, shape of the component.
- 1.2 Adjustment of machine operating controls is explained in accordance with manufacturer's instructions.
- Range cutter head power, cutter head rise and fall, guide pin.
- 1.3 Material is obtained in accordance with job specifications.
- 1.4 Jig is obtained 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 operating an overhead router to shape furniture components.

Performance criteria

- 2.1 Pre-start checks are performed in accordance with the manufacturer's recommendations.
- 2.2 Materials are loaded into the jig in accordance with job specifications.
- 2.3 Jig is positioned onto the guide pin.
- 2.4 Machine operation is operated in accordance with SOIs.
- 2.5 Output of machine is monitored during operation to ensure component meets job specifications.
- 2.6 The procedure for replacing defective materials is explained.

2.7 Components are finished in accordance with job specifications.

2.8 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 2011
Review	2	26 February 2002	31 December 2011
Review	3	19 June 2009	31 December 2011
Revision	4	17 September 2010	31 December 2018
Review	5	19 March 2015	N/A
Review	6	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.