

Title	Set an overhead router with cutter and fence, and with cutter and guide pin, to shape wooden furniture components		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to: demonstrate and apply knowledge of preparing to set an overhead router with cutter and fence, and cutter and guide pin; set an overhead router with cutter and fence to profile wooden furniture components; and set an overhead router with cutter, guide pin, and jig to shape 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 must be assessed against on-job.
All activities and performance criteria must be carried out in accordance with worksite policies and procedures.
- 2 Personal protective equipment, appropriate to job requirements, must be selected and used in accordance with worksite policies and procedures and manufacturer's instructions.
- 3 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.

Outcomes and performance criteria

Outcome 1

Demonstrate and apply knowledge of preparing to set an overhead router with cutter and fence, and cutter and guide pin.

Range cutter and fence, cutter and guide pin.

Performance criteria

1.1 Job specifications are obtained and interpreted.

Range profile, material, component dimensions, number of components, timeframe.

1.2 Types of cutters and cutter steel are explained in terms of the materials they cut.

Range solid profile cutter, double flute, single flute, high-speed steel, tungsten carbide.

1.3 Safety guard, cutter, fence, and guide pin are selected in accordance with job specifications.

1.4 Jig is selected in accordance with job specifications.

1.5 Routine maintenance is explained in accordance with manufacturer's instructions.

Range cutters, lubrication, hydraulics, belts.

1.6 Environmental and safety requirements are met in accordance with worksite policies and procedures.

Range electrical power, lighting, ventilation, dust extraction fans.

Outcome 2

Set an overhead router with cutter and fence to profile wooden furniture components.

Range groove, rebate, mould.

Performance criteria

2.1 Machine is isolated from power sources during set-up.

2.2 Cutter is secured in the collet and fixed on the spindle in accordance with manufacturer's instructions.

- 2.3 Overhead router is set in accordance with job specifications.
Range cutter depth, fence position.
- 2.4 Guards are set and secured in accordance with job specifications.
- 2.5 Machine speed is selected in accordance with manufacturer's instructions.
- 2.6 Test piece is run and checked against job specifications. Adjustments are made if required.

Outcome 3

Set an overhead router with cutter, guide pin, and jig to shape wooden furniture components.

Performance criteria

- 3.1 Machine is isolated from power sources during set-up.
- 3.2 Cutter is secured in the collet and fixed on the spindle in accordance with manufacturer's instructions.
- 3.3 Overhead router is set in accordance with job specifications.
Range cutter depth, guide pin, jig.
- 3.4 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. Machine is adjusted, if required.
- 3.8 Work area is left clean, clear, and safe.

Replacement information	This unit standard and unit standard 25543 replaced unit standard 9795.
Planned review date	31 December 2025

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	28 January 2021	N/A

Consent and Moderation Requirements (CMR) reference

0173

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.