

Title	Set and operate a surface planer to bevel, rebate, and taper wooden furniture components		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: prepare to set and operate a surface planer; and demonstrate and apply knowledge of setting, and operating, a surface planer to bevel, rebate, and taper 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 Personal protective equipment, appropriate to job requirements, must be selected and used in accordance with worksite policies and procedures and manufacturer's instructions.
- 3 Reference
Guidance for woodworking machinery, available at <https://worksafe.govt.nz/topic-and-industry/machinery/woodworking>.
- 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.
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 set and operate a surface planer.

Performance criteria

- 1.1 Job specifications are obtained and interpreted.
Range timeframe, bevels, rebates, tapers.
- 1.2 Materials are selected in accordance with job specifications.
- 1.3 Environmental and safety requirements are met.
Range electrical power, lighting, ventilation, dust extraction.

Outcome 2

Demonstrate and apply knowledge of setting a surface planer to bevel, rebate, and taper wooden furniture components.

Performance criteria

- 2.1 Cutters are changed in accordance with manufacturer's instructions and SOIs.
Range even cutter projection, correct size and weight, safe handling and storage, secured tightly.
- 2.2 The difference between high-speed steel and tungsten carbide tipped cutters is explained in terms of end-use.
- 2.3 Fence and bridge guard are adjusted and secured in place in accordance with manufacturer's instructions and SOIs.
- 2.4 In-feed and out-feed tables are adjusted to height in accordance with job specifications.
- 2.5 Routine maintenance of the equipment is explained in accordance with manufacturer's instructions.
Range cutters, tables, lubrication, pulleys, belts.

Outcome 3

Demonstrate and apply knowledge of operating a surface planer to bevel, rebate, and taper 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 manufacturer's instructions, and SOIs.
- 3.3 Bevelling, rebating, and tapering are monitored throughout production in accordance with job specifications.
- 3.4 Possible causes of inaccurate product, and corrective actions are explained.
- Range machine variation, loading of component, unclear work surface, condition of cutters.
- 3.5 Bevel, rebates, and tapers are machined within time limits and in accordance with job specifications.
- Range accurate dimensions and angles.
- 3.6 Machine setting adjustments are made to rectify out of specification materials.
- 3.7 Machine and work area are made clean, clear, and safe.

Replacement information	This unit standard and unit standard 25553 replaced unit standard 18908.
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Planned review date	31 December 2025
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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 2011
Revision	2	17 September 2010	31 December 2012
Revision	3	21 July 2011	31 December 2018
Review	4	19 March 2015	N/A
Review	5	28 January 2021	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.