Title	Manufacture doors and windows		
Level	4	Credits	40

Purpose	 People credited with this unit standard are able to: prepare to manufacture doors and windows; machine and assemble window and door frames; machine and assemble window sashes and doors; and fit and hang sashes and doors.
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Classification	Joinery > Joinery Operational Skills	
Available grade	Achieved	

Guidance Information

- 1 Legislation and standards relevant to this unit standard include:
 - Health and Safety at Work Act 2015; available from <u>www.legislation.govt.nz;</u>
 - SNZ TS 4211:2022 Specification for performance of windows;
 - NZS 3610:1979. Specification for profiles of mouldings and joinery, available from <u>http://www.standards.co.nz/</u>, and any subsequent amendments and replacements.

2 Assessment

This unit standard does not cover use of a mortisers or tenoners to manufacture doors and windows. Those skills are recognised by unit standard 28217, Set up, operate, and undertake routine maintenance on a mortiser and a tenoner for joinery work.

Evidence for this unit standard must reflect commercial competence; the ability to demonstrate knowledge and skills in the context of the currently accepted requirements of a business operating in a commercial environment.

Evidence must also reflect commercial standards; the verbal and written information covering company policy, standard operating procedures and processes and job-specific instructions.

This unit standard must be assessed under the supervision of a commercially competent practitioner in workplace conditions that reflect:

- commercial standards, current health, safety, industry, and workplace requirements; and
- industry requirements for commercially acceptable timeframes.

3 Definitions

Doors and windows refer to shaped window, fixed glazed, louvre, pivot, sliding/folding and double-hung window and shutters, exterior and interior door frames, flush door, doors (ledged and braced, framed and ledged, glazed, panelled, louvered), gates and casement window.

Workplace requirements refer to the documented procedures specific to a workplace which set out the standard and the required practices of that workplace. This may include job specifications, procedures, practices, manufacturer recommendations, technical data sheets and material safety data sheets.

4 Range

One straight and one shaped door and one straight and shaped window.

Outcomes and performance criteria

Outcome 1

Prepare to manufacture doors and windows.

Range size profile, and quantity, hardware.

Performance criteria

- 1.1 Requirements are confirmed from the window and door schedule and the work area is prepared.
- 1.2 Window and door frames are set out in accordance with the working drawings.
- 1.3 Material requirements are determined, and the order list is prepared.
- 1.4 Cutting list is prepared.

Outcome 2

Machine and assemble window and door frames.

Performance criteria

- 2.1 Personal protective equipment is selected and used.
- 2.2 Components are machined in accordance with profiles specified in the working drawings.
- 2.3 Joints are manufactured according to working drawings.
- 2.4 Surfaces are finished.
- 2.5 Window and door frame joints are sealed before assembly.
- 2.6 Windows and door frames are assembled and finished.

Outcome 3

Machine and assemble window sashes and doors.

Performance criteria

- 3.1 Door and sash components are machined in accordance with profiles specified in the working drawings.
- 3.2 Joints are manufactured in accordance with the working drawings.
- 3.3 Cramp is set up to match the size of the sash or door.
- 3.4 Adhesive is applied, and the sash or door is assembled in accordance with the job specifications.
- 3.5 Faces are sanded and finished.
- 3.6 Post-operational procedures are completed in accordance with workplace requirements.

Outcome 4

Fit and hang sashes and doors.

Range side hung, awning, sliding, folding.

Performance criteria

- 4.1 Hardware is determined from the job specifications.
- 4.2 Door or sash is fitted to the frame in terms of correct clearances, square, without twist or wind.
- 4.3 The sash or door are hung in accordance with workplace requirements.
- 4.4 Sashes and doors are finished and prepared for storage or freight.

Replacement information	This unit standard replaced unit standard 2518, unit standard 2519, unit standard 2520, unit standard 2523, unit standard 2524, unit standard 2525, and unit standard 2542

Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 October 2014	31 December 2025
Review	2	30 March 2023	N/A

Consent and Moderation Requirements (CMR) reference	0073	
This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.		

Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at <u>qualifications@WaihangaAraRau.nz</u> if you wish to suggest changes to the content of this unit standard.