

Title	Install glazing into common glazing systems		
Level	4	Credits	15

Purpose	<p>A person credited with this standard can:</p> <ul style="list-style-type: none"> • explain glazing compliance requirements for common glazing systems; • plan and prepare to install common glazing systems; • glaze common glazing systems; • complete glazing installations; and • maintain glazing tools and plant. <p>This standard contributes to the New Zealand Certificate in Glazing (Level 4) [Ref: 2945].</p>
----------------	--

Classification	Construction Trades > Glazing
-----------------------	-------------------------------

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Industry expects this standard to be assessed toward the end of a glazing apprenticeship programme when the apprentice has had opportunity to practice installation into all glazing system types and using all glass types.
- 2 Assessment
Evidence for outcomes 2 – 4 must include planning, installation and completion of glazing into at least two *common glazing systems* and two *glass types*.

Common glazing systems include steel, aluminium, timber, uPVC (unplasticised polyvinyl chloride) and internal partition systems.

Glass types may be annealed, toughened, laminate, fire rated or security glass.

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

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

Evidence for assessment against this standard must be verified by a person who has current technical expertise in the glazing trades and has had the opportunity to regularly observe the candidate in the workplace.

- 3 Installations must be completed without injury to personnel or damage to products and equipment. Personal protective equipment must be used to meet regulatory and worksite requirements.

4 Definitions

Glazing types refer to monolithic and Insulated Glass Unit (IGU).

Installation methods may be new, reglazed or retrofitted.

Personal protective equipment (PPE) includes – anything used or worn by a person (including clothing) to minimise risks to the person's health and safety.

Worksite requirements refer to instructions to staff on policy and procedures which are documented in manual format and are available in the workplace. These requirements include – company specifications and procedures, work instructions, manufacturer's specifications, product quality specifications, legislative requirements.

5 Evidence for assessment against this standard must reflect best practice guidelines and principles specified in:

- NZS 4223.1:2008. *Glazing in buildings – Part 1: Code of practice for glazing in buildings – Glass selection and glazing.*
- NZS 4223.2:2016. *Glazing in buildings – Part 2: Insulating glass units.*
- NZS 4223.3:2016. *Glazing in buildings – Part 3: Human impact safety requirements.*
- AS/NZS 4668:2000. *Glossary of terms used in the glass and glazing industry.*

AS/NZS and NZS standards are available at <http://www.standards.govt.nz>.

Also available at <https://www.wganz.org.nz/resource-directory/>.

Outcomes and performance criteria

Outcome 1

Explain glazing compliance requirements for common glazing systems.

Range steel, aluminium, timber, uPVC (unplasticised polyvinyl chloride), internal partition systems.

Performance criteria

- 1.1 Explain system materials compatibility, assembly methods, glazing methods, drainage, block types and purpose, glass types and use, glass orientation.
- 1.2 Explain test requirements for fire rated and security glazing.
- 1.3 Explain compliance requirements according to glazing system product and material manufacturer's specifications.

Outcome 2

Plan and prepare to install common glazing systems.

Performance criteria

- 2.1 Confirm job specifications including glass requirements, location and customer details.
- 2.2 Plan resource requirements and gather equipment, tools, glass and installation materials.

2.3 Analyse and prepare for site requirements

Range access, movement and handling, and safety.

Outcome 3

Glaze common glazing systems.

Performance criteria

- 3.1 Confirm glass meets job specifications and compliance requirements.
- 3.2 Prepare the glazing system according to industry best practice.
- 3.3 Install glazing to meet job and manufacturer's specifications.
- 3.4 Provide information about maintenance and warranty requirements to the customer.

Outcome 4

Complete glazing installations.

Performance criteria

- 4.1 Clean the glazing unit and frame according to manufacturer's specifications.
- 4.2 Remove tools, equipment and any materials from the site.

Outcome 5

Maintain glazing tools and plant.

Performance criteria

- 5.1 Tools and plant used for glazing installations are cleaned, maintained and stored ready for use.
- Range plant may include – any machinery, vehicle, equipment (including PPE) used in a glazing installation job.

Planned review date	31 December 2029
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 November 2024	N/A

Consent and Moderation Requirements (CMR) reference	0048
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Waihangara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihangaraarau.nz if you wish to suggest changes to the content of this unit standard.