

<b>Title</b>	<b>Plan and cost a glazing installation project</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>A person credited with this standard can:</p> <ul style="list-style-type: none"> <li>• review plans and specifications to determine glazing project requirements; and</li> <li>• estimate costs for a glazing installation project.</li> </ul>
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<b>Classification</b>	Construction Trades > Glazing
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 Assessment

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

### 2 Range

Glazing projects may include any glass installation including windows, wall, floors, treads, canopies, exterior and interior cladding panels, mirrors.

### 3 Evidence generated for assessment against this standard must reflect the 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 4223.3:2016. *Glazing in buildings – Part 3: Human impact safety requirements;*
- NZS 4223.4:2008. *Glazing in buildings – Part 4: Wind, dead, snow, and live actions;*
- AS/NZS 1170.0:2002. *Structural design actions – Part 0: General principles;*
- AS/NZS 4666:2012. *Insulating glass units;*
- NZS 3604:2011. *Timber-framed Buildings;*
- NZS 4211:2022. *Specification for performance of windows.*

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

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## Outcomes and performance criteria

### Outcome 1

Review plans and specifications to determine glazing project requirements.

Range glass type, materials, glazing system components, glazing installation method and resources.

### Performance criteria

1.1 Review plans and specifications to determine glass types and glazing system materials and performance requirements.

Range may include – architectural plans and specifications, acoustic reports, facade specifications, wind loading report, producer statements, manufacturers specifications.

1.2 Identify and record variances, and communicate project requirements with the customer.

### Outcome 2

Estimate costs for a glazing installation project.

### Performance criteria

2.1 Create a schedule of glass and glazing system component quantities.

Range glass type, materials, glazing system components.

2.2 Determine glass requirements.

Range thickness, type, compliance.

2.3 Determine glazing system component requirements.

Range hardware, sealants, wedge rubbers, blocks, glazing compounds, framing componentry.

2.4 Determine resource requirements for a glazing project.

Range labour, access, time, lifting, glazing installation method

2.5 Calculate costs and agree project scope, price, and contract with the customer.

Range may include – sketch, work description, inclusions, exclusions, product types, timeframes, quoted price, payment arrangements, terms and conditions.

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<b>Planned review date</b>	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 November 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0048
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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**Comments on this unit standard**

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