

Title	Demonstrate knowledge of glass properties		
Level	3	Credits	5

Purpose	<p>This theory-based entry-level unit standard is for people who work in the glass processing or glazing sectors of the glass industry.</p> <p>People credited with this unit standard are able to demonstrate knowledge of glass properties.</p>
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Classification	Glass and Glazing > General Glass and Glazing
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Available grade	Achieved
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Guidance Information

In the context of this unit standard, *selected references* are those documents or parts of documents identified as standard references by the industry.

New Zealand Standards (NZS)

NZS 4223 Parts 1 and 2:1985 *Code of practice for glazing in buildings*;

NZS 4223.3:1999 *Glazing in buildings - Human impact safety requirements*;

NZS 4223.4:2008 *Glazing in buildings - Wind, dead, snow and live actions*.

Australian and New Zealand Standards (AS/NZS)

AS/NZS 4666:2012 *Insulating glass units*;

AS/NZS 4667:2000 *Quality requirements for cut-to-size and processed glass*;

AS/NZS 4668:2000 *Glossary of terms used in the glass and glazing industry*.

The industry-endorsed list of catalogues and reference guides is available from the Building and Construction Industry Training Organisation.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of glass properties.

Performance criteria

- 1.1 The general properties of glass are identified and described in terms of composition, and affects of variation of component materials.
- 1.2 The physical properties of glass are identified and described in terms of thickness, weight, size, strength, and breakage characteristics.

- 1.3 The solar properties and performance data of glass are identified and described in terms of light and heat reflection and transmission, shading coefficients, and ultraviolet values and elimination.
- 1.4 The sound properties of glass are identified and described in terms of transmission loss and class, and sound and damage weighted transmission.
- 1.5 Glass properties are identified and described in terms of the selected references.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 September 2002	31 December 2013
Review	2	21 November 2008	31 December 2017
Review	3	18 June 2015	31 December 2024
Review	4	24 November 2022	31 December 2024

Consent and Moderation Requirements (CMR) reference

0048

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