Title	**Cut glass manually**		
Level	**4**	**Credits**	**10**

Purpose	A person credited with this standard can: • cut glass to regular shapes manually; • cut glass to irregular shapes manually; and • complete cleaning and storage requirements after cutting glass.

Classification	Construction Trades > Glazing

Available grade	Achieved

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 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 Glass cutting must be completed without injury to personnel or damage to products and equipment. Personal protective equipment (PPE) must be used to meet regulatory and worksite requirements.

3 Definitions
Regular shapes include – square, rectangle, circle.
Irregular shapes include – shapes other than square, rectangle, circle.
Personal protective equipment 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.

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4 Evidence generated for assessment against this standard must reflect the best practice guidelines and principles specified in:
- NZS 4223.3:2016. *Glazing in buildings – Part 3: Human impact safety requirements*;
- 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.*

NZS standards are available at http://www.standards.govt.nz/.

Outcomes and performance criteria

Outcome 1

Cut glass to regular shapes manually.

Performance criteria

1.1 Prepare the work area and select and prepare any required tools, plant, and equipment.

Range cutting area, cutting table;
identify hazards, check ventilation, clear and clean work area, undertake any required safety precautions.

1.2 Prepare the glass for manual cutting into regular shapes.

Range select glass, check glass, place glass.

1.3 Mark the glass for cutting to meet a job specification.

1.4 Cut the glass into regular shapes to meet a job specification.

1.5 Check and finish the glass.

1.6 Dispose of waste materials.

1.7 Review the completed product to determine yield, wastage, for stock requirements.

Outcome 2

Cut glass to irregular shapes manually.

Performance criteria

2.1 Prepare the work area and select and prepare any required tools, plant, and equipment.

Range cutting area, cutting table;
identify hazards, check ventilation, clear and clean work area, undertake any required safety precautions.

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2.2 Prepare the glass for manual cutting into irregular shapes.

Range select glass, check glass, place glass.

2.3 Make a cutting plan and labels that optimise glass use for a job specification.

2.4 Use a cutting plan to cut the glass into irregular shapes to meet a job specification.

2.5 Check and finish the glass.

2.6 Dispose of waste materials.

2.7 Review the completed product to determine yield, wastage, for stock requirements.

Outcome 3

Complete cleaning and storage requirements after cutting glass.

Performance criteria

3.1 Clean and store tools and equipment used to cut glass.

Range may include – any tools and equipment (including PPE) used to cut glass manually.

3.2 Clear and clean the work area.

Replacement information	This unit standard replaced unit standard 20498 and unit standard 20499.

Planned review date	31 December 2027

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 June 2015	31 December 2024
Review	2	24 November 2022	N/A

Consent and Moderation Requirements (CMR) reference	0048

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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.

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