

Title	Remove and replace automotive glass		
Level	4	Credits	20

Purpose	<p>A person credited with this standard can:</p> <ul style="list-style-type: none"> • prepare to remove and replace automotive glass; • remove and replace automotive glass from vehicle; and • complete cleaning, storage, and maintenance requirements for removing and replacing automotive glass.
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Classification	Glass and Glazing > Automotive Reglazing
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Available grade	Achieved
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Guidance Information

1 Assessment

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

All removals and replacements must be completed in a commercially acceptable timeframe and workplace requirements.

2 Range

5 of – direct glazed, 2 of each – framed, rubber fitted, fixed side or rear, moveable side.

Rubber fitted may include – self-locking, rope in, weather seal, locking strip.

3 Definitions

Job specification – refers to instructions to staff on policy and procedures which are documented in memo or 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.

Personal protective equipment – refers to anything used or worn by a person (including clothing) to minimise risks to the person's health and safety; air-supplied respiratory equipment.

Worksite requirements - refer to procedures used by the organisation carrying out the work and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, safety procedures and guidelines, equipment operating procedures, codes of practice, quality management practices.

- 4 Glass removal and replacement 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.
- 5 Evidence generated for assessment against this standard must reflect the best practice guidelines and principles specified in:
- AS/NZS 2366.1:1999. *Windscreen repairs – Repair procedures.*
 - AS/NZS 2366.2:1999. *Windscreen repairs – Repair systems.*
 - AS/NZS 2080:2006. *Safety glazing for land vehicles.*

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

Evidence generated for assessment against this standard must reflect workplace and industry requirements specified in:

- *Land Transport Rule: Vehicle Repair 1998 – Rule 34001/1998.*
- *Land Transport Rule: Glazing Windscreen Wipe and Wash, and Mirrors 1999 – Rule 32012/1999.*
- *NZTA Vehicle Inspection Requirements Manual.*
- statutory and regulatory requirements applicable to the automotive glazing industry.
- documented worksite specifications, procedures, and practices.
- manufacturer recommendations, specifications, and technical data sheets.
- applicable material safety data sheets.

- 6 Reference
New Zealand Transport Agency, *Land Transport Rules for Vehicle Inspection Requirements Manual (VIRM)*, available at <http://vehicleinspection.nzta.govt.nz/virms/in-service-wof-and-cof/general/vision/glazing>.

Outcomes and performance criteria

Outcome 1

Prepare to remove and replace automotive glass.

Performance criteria

- 1.1 Determine the glass removal method, and materials and equipment requirements from the glass manufacturer and job specifications.
- 1.2 Determine vehicle preparation requirements from the glass manufacturer and vehicle specifications and prepare the vehicle for removal of glass.
- Range may include but is not limited to, removal of electrical and electronic components, removal of A pillar trim, removal of wipers and exterior trim/mouldings to gain access.
- 1.3 Select and prepare required personal protective equipment to meet health and safety requirements.

- 1.4 Identify and confirm replacement glass and other material specifications with the job specifications.
- 1.5 Identify procedures for minimising waste of materials.

Outcome 2

Remove and replace automotive glass from vehicle.

Performance criteria

- 2.1 Remove automotive glass to meet the job specification.
- Range use of appropriate tooling to remove glass, clean and prepare the aperture for glass installation.
- 2.2 Install automotive glass to meet the job specification.
- Range prepare glass, prepare aperture, apply adhesive or sealant, install glass.
- 2.3 Replace all components and trim and/or mouldings where required to be removed under performance criterion 1.2.
- 2.4 Clean the glass and prepare the vehicle for collection.
- 2.5 Provide warranty and safety information to the vehicle owner.
- 2.6 Complete any required documentation.

Outcome 3

Complete cleaning, storage, and maintenance requirements for removing and replacing automotive glass.

Performance criteria

- 3.1 Identify and store re-useable materials.
- 3.2 Remove and dispose waste and scrap materials.
- 3.3 Clear, clean, and inspect the work area.
- 3.4 Undertake equipment maintenance procedures.
- Range equipment includes – vehicle protective equipment, tools, glass removal/cutting out tools, adhesive or sealing application tools, glass lifting tools.

3.5 Clean and store tools, plant, and equipment used to replace automotive glass.

Range plant includes – any machinery, vehicle, vessel, aircraft, equipment (including personal protective equipment), appliance, container, implement, or tool; any component of any of those things; anything fitted or connected to any of those things; personal protective equipment includes – anything used or worn by a person (including clothing) to minimise risks to the person’s health and safety; air-supplied respiratory equipment.

Replacement information	This unit standard replaced unit standard 22349 and unit standard 26081.
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Planned review date	31 December 2026
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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
Reviewed	2	24 February 2022	N/A
Revision	3	25 August 2022	N/A

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

Comments on this unit standard

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.