

<b>Title</b>	<b>Remove and replace a damaged motor vehicle panel attached by adhesives</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	This unit standard is for people who work in the collision repair industry. People credited with this unit standard are able to prepare to remove a damaged motor vehicle panel, remove a damaged motor vehicle panel, prepare to fit a new motor vehicle panel, and fit the new motor vehicle panel.
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<b>Classification</b>	Motor Industry > Collision Repair
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation and references  
Performance of the outcomes of this unit standard must comply with the following:  
Health and Safety at Work Act 2015  
Land Transport Rules  
Hazardous Substances and New Organisms Act 1996.

- 2 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

Land Transport Rules are available online at <https://www.nzta.govt.nz/>.

- 3 Definitions  
*Company requirements* refer 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 but are not limited to – company specifications and procedures, work instructions, manufacturer specifications, product quality specifications and legislative requirements.  
*Service information* may include but is not limited to – vehicle structural repairer code of practice, technical information of a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions and specifications; technical terms and descriptions; and detailed illustrations. This may be accessed from the manufacturer.  
*Suitable tools and equipment* means industry approved tools and equipment that are recognised within the industry as being the most suited to complete the task in a professional and competent manner with due regard to safe working practices.

- 4 Range  
Assessment against this unit standard applies to the replacement of a panel attached by adhesives. The panel may be any one of – steel, aluminium, glass reinforced plastic (GRP), composite plastic.
- 5 Assessment  
Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable manufacturer's specifications, service information, company and legislative requirements.
- 6 Recommended skills and knowledge  
Unit 22802, *Use adhesives and sealants for vehicle bodywork applications*, or demonstrate equivalent knowledge and skills.

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## Outcomes and performance criteria

### Outcome 1

Prepare to remove a damaged motor vehicle panel.

#### Performance criteria

- 1.1 Damage and repair procedures are identified and confirmed to enable the panel to be replaced.
- Range parts interfering with removal, panel attachment areas, related damage.
- 1.2 Suitable tools and equipment for repairing related damage and removing and replacing the panel are selected to enable the repair to be carried out.
- Range may include but is not limited to – hammers, dollies, body file, spoons, flipping irons, welding plant, disk sander, dual action (DA) sander, orbital sander, body jack, panel cutters, chisel, levers, measuring tools, heat gun, clamping devices.
- 1.3 Damaged parts, fittings, mouldings, protective coatings, sound deadener pads, insulation, and sealers are removed to enable the repair to be carried out.
- 1.4 Parts, trim, and fittings that may get damaged and interfere with carrying out the repair are removed, and are stored and/or protected without damage.
- Range may include but is not limited to – interior trims and fittings, lights, mouldings, guard liners, handles, locks, wheels, bumpers, tow bars, wiring, radiator, badges, engine components.
- 1.5 Replacement parts are procured.

### Outcome 2

Remove a damaged motor vehicle panel.

**Performance criteria**

2.1 Damaged panel is removed, without damage to adjacent areas or fittings.

2.2 Damaged panel is disposed of.

**Outcome 3**

Prepare to fit a new motor vehicle panel.

**Performance criteria**

3.1 Replacement panel is checked for fitment.

3.2 Suitable tools and equipment for replacing the panel are selected to enable the repair to be carried out.

Range may include but is not limited to – welding equipment, clamps, adhesive, heat gun.

3.3 Related damage is repaired, and body measurements are in accordance with manufacturer's specifications.

3.4 Surface of replacement panel is undamaged and clean.

3.5 Required priming and sealing are carried out.

**Outcome 4**

Fit the new motor vehicle panel.

**Performance criteria**

4.1 The panel is checked to ensure it is free of irregularities.

4.2 Adhesive is applied to the panel in accordance with adhesive manufacturer's specifications.

4.3 Panel is attached, aligned, and secured in place.

4.4 Adjacent panels, glass, trim, and fittings are checked to ensure they are free of damage or adhesive.

4.5 Curing time of adhesive is confirmed and observed in accordance with adhesive manufacturer's specifications.

4.6 Parts that were removed are refitted and aligned, and their operation checked.

4.7 Protective coatings, sound deadener pads, and sealers are replaced, and anti-corrosion procedures are carried out.

4.8 Tools and equipment are cleaned and put away, and the work area is cleaned.

<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	29 January 1996	31 December 2018
Review	2	20 December 1998	31 December 2018
Revision	3	16 October 2003	31 December 2018
Review	4	26 November 2007	31 December 2018
Review	5	21 April 2016	31 December 2027
Review	6	25 May 2023	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0014
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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](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.