

<b>Title</b>	<b>Carry out a full and sectional panel replacement on a motor vehicle</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>20</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 repair or replace the damaged motor vehicle panel, remove the damaged panel, prepare to fit a replacement motor vehicle panel, and fit a replacement 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.

#### 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.

#### 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

This unit standard applies to – a minimum of 3 of both sectional panel replacements, and full panel replacements.

## 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.

For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

## 6 Recommended skills and knowledge

Unit 5773, *Identify and align structural damage on a motor vehicle.*

Unit 23992, *Use a gas metal arc welding plant in the automotive and related industries.*

Unit 23993, *Demonstrate knowledge of full and sectional panel replacement on motor vehicles;* or demonstrate equivalent knowledge and skills.

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## Outcomes and performance criteria

### Outcome 1

Prepare to repair or replace the damaged motor vehicle panel.

#### Performance criteria

- 1.1 Vehicle manufacturer body repair specifications are sourced to enable the panel to be repaired.
- 1.2 Affected area is assessed, and repair procedure identified, to enable the panel to be repaired or replaced.
- 1.3 Suitable tools and equipment for repairing related damage and replacing the panel are selected and used.  

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, drill, measuring tools, clamps.
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- 1.4 All necessary parts, fittings, foam fillers, and sealers are removed and stored or disposed of, and electronics are protected.
- 1.5 Replacement parts are procured.

### Outcome 2

Remove the damaged motor vehicle panel.

#### Performance criteria

- 2.1 Part where cutting is to take place is legibly marked out.

2.2 Damaged panel is removed without damage to adjacent areas and fittings.

Range may include but is not limited to – air saw, electric saw, gas cutting, snips, nibbler, plasma cutter, spot drill, grinder, cut off wheel.

2.3 Damaged section is disposed of.

### Outcome 3

Prepare to fit a replacement motor vehicle panel.

#### Performance criteria

3.1 Replacement panel is cut to size.

Range section of new panel or section of second-hand panel.

3.2 Welding equipment is set up and adjusted.

Range may include but is not limited to – MIG welder, spot welder.

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

3.4 Surface for replacement panel is checked to confirm it is undamaged and clean.

3.5 Priming and/or sealing are carried out.

### Outcome 4

Fit a replacement motor vehicle panel.

#### Performance criteria

4.1 Panel is attached and aligned in preparation for welding, and the correct type of join is used according to the manufacturer's specifications.

Range may include but is not limited to – butt with insert, lap joint, offset butt joint, open butt.

4.2 Panel is welded in place.

Range may include but is not limited to – MIG welding, spot welding.

4.3 Body measurements are in accordance with vehicle manufacturer's specifications, and the panel is checked to be free of irregularities.

Range irregularities may include but are not limited to – dents, stretching, join being visible.

- 4.4 Adjacent panels, glass, trim, fittings, and vehicle electronics are checked to confirm there is no damage as a result of panel or sectional replacement.
- 4.5 Protective coatings, sound deadener pads, sealers, and foams are replaced, and anti-corrosion procedures are carried out.
- 4.6 Tools and equipment are cleaned and put away, and the work area is cleaned.

<b>Replacement information</b>	This unit standard and unit standard 23993 replaced unit standard 5774.
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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	26 November 2007	31 December 2018
Review	2	21 April 2016	31 December 2027
Review	3	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.