

Title	Repair panel damage and shrink a panel in the collision repair industry		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to: prepare to repair panel damage; repair panel damage; prepare to shrink a panel; and shrink a panel, in the collision repair industry.
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Classification	Motor Industry > Vehicle Bodywork
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Available grade	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;
Spray Coating Regulations 1962;
Approved Code of Practice for the Safe Use of Isocyanates (WorkSafe).
- 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 *Approved Code of Practice for the Safe Use of Isocyanates* is available online from the WorkSafe website <http://www.business.govt.nz/worksafe/>.
- 4 Definitions
Company requirements refer to instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.
Service information may include – vehicle structural repairer code of practice, technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.
- 5 Assessment
Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable manufacturers specifications, service information, company requirements and legislative requirements.

6 Recommended skills and knowledge

It is recommended that people hold credit for Unit 21697, *Demonstrate knowledge of repairing panel damage and shrinking a panel in the collision repair industry*, or demonstrate equivalent knowledge and skills.

Outcomes and performance criteria

Outcome 1

Prepare to repair panel damage in the collision repair industry.

Performance criteria

- 1.1 Damage is assessed to determine if the panel is able to be repaired to the original shape.
- Range sighting, feeling, filing the metal surface.
- 1.2 Types of damage are identified.
- Range direct and indirect.
- 1.3 Tools suitable for repairing damage are selected to enable the damage to be repaired to its original shape.
- Range may include – hammers, dollies, body file, spoons, slapping irons/flippers;
two of – disk sander, dual action (DA) sander, orbital sander.
- 1.4 Parts and fittings are removed to gain access to the damaged area without causing further damage to the removed parts.

Outcome 2

Repair panel damage in the collision repair industry.

Performance criteria

- 2.1 Damage is repaired, and the panel is returned to its original shape with no irregularities.
- 2.2 Panel is metal finished ensuring there are no irregularities on the surface that may impair painting.
- Range file marks, deep sanding marks, dents, sharp edges.
- 2.3 No damage is caused to adjacent panels and/or fittings.

Outcome 3

Prepare to shrink a panel in the collision repair industry.

Performance criteria

3.1 Area to be shrunk is identified.

Range sighting, feeling, filing the metal surface.

3.2 Tools and equipment are selected to enable the job to be carried out.

Range may include – hammers, dollies, disc sander, body and slapping files, oxy-acetylene welding plant, abrasives, mallet, copper coated carbon rod, power cables, electric welder.

Outcome 4

Shrink a panel in the collision repair industry.

Performance criteria

4.1 Area is shrunk and reduced to the same contour as the original shape of the panel.

Range may include but is not limited to – hot or cold shrinking, electric shrinking.

4.2 Area is metal finished, so the shrunk area blends in with the surrounding panel contours and shapes so as to reveal no irregularities.

Range by sight, by feel.

Replacement information	This unit standard and unit standard 21697 replaced unit standard 3875 and unit standard 16100.
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Planned review date	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	27 July 2005	31 December 2018
Review	2	21 April 2016	31 December 2023
Review	3	10 December 2020	31 December 2027
Review	4	25 May 2023	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.