

Title	Demonstrate knowledge of repairing panel damage and shrinking a panel in the collision repair industry		
Level	4	Credits	2

Purpose	People credited with this unit standard are able to demonstrate knowledge of: repairing panel damage; and, shrinking 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 outcome 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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of repairing panel damage in the collision repair industry.

Performance criteria

1.1 Purpose and procedure for metal finishing welds are described.

Range repair existing panel, replacement panel, welded seams.

1.2 Suitable hand tools to carry out the task are identified.

Range may include – hammers, dollies, body file, body spoons, slapping irons/flippers, levers.

1.3 Procedures to identify damage are described.

1.4 Procedures for using tools to repair dents are described.

Range may include – preparation, direct hammering, indirect hammering, spring hammering, picking, body filing;
using – dollies, slapping irons/flippers, body spoons, levers.

Outcome 2

Demonstrate knowledge of shrinking a panel in the collision repair industry.

Performance criteria

2.1 Purpose of shrinking a panel is described.

2.2 Procedures taken to identify if a panel requires shrinking are explained.

2.3 Tools and equipment used to shrink a panel are identified.

Range may include – hammers, dollies, sanders, flippers (slapping irons), mallet, body file, abrasives, copper coated carbon rod, power cables, electric welder.

2.4 Methods of shrinking a panel are described.

Range hot and cold shrinking, electric shrinking.

2.5 Safety precautions when shrinking are identified.

Replacement information	This unit standard and unit standard 21695 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.