

Title	Complete repairs of perforated metal corrosion on a motor vehicle structural steel panel		
Level	4	Credits	6

Purpose	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 corrosion damage on a motor vehicle structural steel panel, remove corrosion from a motor vehicle structural steel panel, and repair corrosion damage on a motor vehicle structural steel panel.
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Classification	Motor Industry > Collision Repair
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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 in at Work (2015);
 Land Transport Rule: Vehicle Repair (1998), Rule 34001.

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 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.

5 Recommended skills and knowledge

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

Unit 23998, *Demonstrate knowledge of vehicle body corrosion and anti-corrosion procedures in the collision repair industry*; or demonstrate equivalent knowledge and skills.

Outcomes and performance criteria

Outcome 1

Prepare to remove corrosion damage on a motor vehicle structural steel panel.

Performance criteria

1.1 Corrosion, and location of damage are assessed, and viability of repairing or replacing the panel is determined.

1.2 Suitable tools, materials, and equipment are selected.

Range may include but is not limited to – hammers, dollies, body file, welding plant, disk sander, dual action (DA) sander, orbital sander, panel cutters, chisel, levers, drill, measuring tools, anti-corrosion materials.

1.3 Protective coatings, sound deadener pads, sealers, and foams are removed to enable the repair to be carried out.

1.4 Parts, trim, and fittings that interfere with carrying out the repair are protected and/or removed, without damage.

Range may include but is not limited to – door trims and fittings, lights, mouldings, guard liners, interior trim, handles, locks, wheels, bumpers, tow bars, wiring, badges, engine components, glass, electronics, fuel and brake lines, fuel tank.

1.5 Parts are procured.

Outcome 2

Remove corrosion from a motor vehicle structural steel panel.

Performance criteria

- 2.1 Corrosion is removed without damage to adjacent areas or fittings.
Range complete panel or section of panel.
- 2.2 Adjacent areas are inspected for corrosion and condition and treated to prevent corrosion.
Range condition may include but is not limited to – bare metal, flaky coating.
treatment may include but not limited to – metal conditioner, conversion coating, anti-corrosion coating.
- 2.3 Surface of the replacement panel to be fitted is checked to ensure no corrosion is present and treated.
Range may include but is not limited to – weld-through primers, anti-corrosion coatings, metal conditioner, conversion coating.

Outcome 3

Repair corrosion damage on a motor vehicle structural steel panel.

Performance criteria

- 3.1 A replacement panel or section of panel is fitted.
Range gas metal arc welding or spot welding.
- 3.2 Protective coatings, sound deadener pads, sealers, and foams are replaced, and anti-corrosion procedures are carried out.
- 3.3 Parts removed are test fitted, and their operation checked.
- 3.4 Adjacent panels, glass, trim, fittings, or vehicle electronics are checked to ensure there is no damage as a result of the repair.
- 3.5 Tools, materials, and equipment are cleaned and put away, and the work area is cleaned.

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	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

Consent and Moderation Requirements (CMR) reference

0014

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.