

Title	Demonstrate knowledge of vehicle structural construction materials and damage repairs		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of vehicle structural construction materials; and describe damage and limitations for repairs to vehicle structural construction materials.
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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 at Work Act 2015;
- Land Transport Rule: Vehicle Repair 1998, Rule 34001;
- Health and Safety at Work (Hazardous Substances) Regulations 2017.

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 that are available in the workplace. These requirements may include company policies and procedures, work instructions, manufacturer specifications and legislative requirements.

Service information may include technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

4 Range

Structural construction materials may include – high strength steels, mild steels, composites, aluminium types and plastics.

5 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, company requirements and legislative requirements.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of vehicle structural construction materials.

Performance criteria

- 1.1 Vehicle structural construction materials and their reasons for use are described.
- Range evidence of three vehicle structural construction materials is required.
- 1.2 Location of structural construction materials on a vehicle and their use in relation to vehicle design are described.
- 1.3 The effects of damage to vehicle structural construction material panels are explained.
- Range may include – tears, cracks, bends, kinks, broken rivets, damaged welds, separation; evidence of five is required.

Outcome 2

Describe damage and limitations for repairs to vehicle structural construction materials.

Performance criteria

- 2.1 The characteristics of damaged vehicle structural construction materials are described.
- 2.2 Limitations for repairing damage to vehicle structural construction materials are described.
- Range may include – effects of heat, hammering, hardness, weight, galvanic corrosion, corrosion resistance, absorbing impact; evidence of five limitations required.

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	23 July 2020	31 December 2027
Review	2	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.