

Title	Demonstrate knowledge of automotive braking, steering and suspension system components in the collision repair industry		
Level	3	Credits	3

Purpose	This unit standard is for people who wish to enter or are employed in the collision repair industry. People credited with this unit standard are able to demonstrate knowledge of braking system components, steering system components and suspension system components.
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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.
- 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.
- 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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of braking system components.

Performance criteria

1.1 Components of a braking system and their location on a vehicle are identified.

1.2 The precautions to take when working around braking systems and their components are described.

Range protection of the anti-lock braking system, closing off pipes and hoses.

Outcome 2

Demonstrate knowledge of steering system components.

Performance criteria

2.1 Components of a steering system and their location on a vehicle are identified.

Range rack and pinion, parallelogram, electric assist.

2.2 The precautions to take when working around steering systems and their components are described.

Range disabling safety restraint systems.

Outcome 3

Demonstrate knowledge of suspension system components.

Performance criteria

3.1 Components of a suspension system and their location on a vehicle are identified.

Range McPherson strut, independent, semi-independent.

3.2 The precautions to take when working around suspension systems and their components are described.

Range protection of anti-lock braking system.

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	18 August 2016	31 December 2027
Review	2	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.