

<b>Title</b>	<b>Replace faulty anti-lock braking system components on damaged vehicles</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This unit standard is intended for people who work in the collision repair industry.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of anti-lock braking systems (ABS); identify and isolate ABS on damaged vehicles; and replace faulty ABS components.</p>
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<b>Classification</b>	Motor Industry > Collision Repair
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<b>Available grade</b>	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;  
 Land Transport Rule: Vehicle Standards Compliance 2002.

#### 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

*ABS* refers to anti-lock braking systems.

*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.

#### 4 Assessment

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

## 5 Recommended skills and knowledge

It is recommended that people hold credit for Unit 5772, *Demonstrate knowledge of motor vehicle suspension, steering, and brake systems and the effects of collision* before being assessed against this unit standard.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of ABS.

#### Performance criteria

1.1 Purpose of ABS is described.

1.2 Principles of how ABS operates is described.

1.3 The major components on an ABS are described.

Range may include but is not limited to – speed sensors, electronic control unit, hydraulic unit, gravity sensor, proportioning valve, stop lamp switch, master cylinder.  
minimum of four components is required.

1.4 Legislation and standards relevant to the safety of ABS vehicle braking systems are identified.

1.5 Methods of testing ABS are described.

### Outcome 2

Identify and isolate ABS on damaged vehicles.

#### Performance criteria

2.1 ABS faults caused by an accident are identified visually and noted.

Range may include but is not limited to – leaks, loose and broken components, disconnected wires, blown fuse, self-test codes.

2.2 Speed sensors are identified and isolated.

2.3 ABS electronic control unit is identified and isolated to prevent damage to ABS electronic control unit.

### Outcome 3

Replace faulty ABS components.

**Performance criteria**

3.1 Faulty ABS components are replaced.

<b>Planned review date</b>	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 2022
Review	2	20 December 1998	31 December 2022
Revision	3	16 October 2003	31 December 2022
Review	4	16 December 2004	31 December 2022
Review	5	29 April 2021	31 December 2027
Review	6	25 May 2023	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.