

<b>Title</b>	<b>Demonstrate knowledge of motor vehicle safety systems and working on damaged systems</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	This theory-based 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 motor vehicle safety systems, and working on damaged motor vehicle safety systems.
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<b>Classification</b>	Motor Industry > Collision Repair
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<b>Available grade</b>	Achieved
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### Explanatory notes

- 1 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.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of including updated amendments to, and replacements of – Health and Safety at Work Act 2015; Hazardous Substances and New Organisms Act 1996; Land Transport Rules: Frontal Impact 2001, Rule 32006/1; Head Restraints 2001, Rule 32010/1; Seatbelts and Seatbelt Anchorages 2002, Rule 32011.
- 3 Land Transport Rules are available online at <https://www.nzta.govt.nz/>.
- 4 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 – 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.

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### Outcomes and evidence requirements

#### Outcome 1

Demonstrate knowledge of motor vehicle safety systems.

**Evidence requirements**

- 1.1 Purposes of motor vehicle safety systems are identified.
- 1.2 Legislation and standards relevant to motor vehicle safety systems are identified.
- 1.3 Methods of testing motor vehicle safety systems are described.
- 1.4 Cost and ramifications of misdiagnosing faults in motor vehicle safety systems are identified.
- Range may include but is not limited to – braking systems, air bags, restraints, proximity sensors, collision avoidance systems.
- 1.5 Storage procedures for air bags and pretensioners are described.

**Outcome 2**

Demonstrate knowledge of working on damaged motor vehicle safety systems.

**Evidence requirements**

- 2.1 Damaged seat belts and buckles, and the importance of replacing with belts and buckles that comply with legislation, is identified.
- Range includes but is not limited to – damaged webbing, broken and/or pulled threads, cut loops at belt edge, bowed webbing, colour fading of material, retractor not locking.
- 2.2 Types of damage to inertia reel systems are identified.
- 2.3 Types of damage to seat belt anchoring points, and the importance of them meeting standards are identified.
- Range includes but is not limited to – no movement, no deformation.
- 2.4 Method of removing and replacing child safety restraints is described.
- 2.5 Braking system faults caused by an accident are identified.
- Range includes but is not limited to – hydraulic system, air system, anti-lock braking system (ABS).
- 2.6 Damage limits to the steering column, joints, and wheels are identified.
- Range includes but is not limited to – mounting brackets, steering shaft and column, wheel rims.
- 2.7 Accident damage to seats and seat anchoring points is identified.

2.8 Ramifications of improper repair to motor vehicle safety systems are identified.

<b>Planned review date</b>	31 December 2021
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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	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>.

#### Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

#### Comments on this unit standard

Please contact the MITO New Zealand Incorporated [info@mito.org.nz](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.