

Title	Demonstrate knowledge of automotive lighting		
Level	3	Credits	2

Purpose	This unit standard is for people who wish to enter or are employed in the motor industry. People credited with this unit standard are able to demonstrate knowledge of vehicle lighting and headlamp alignment.
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Classification	Motor Industry > Automotive Electrical and Electronics
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Available grade	Achieved
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Guidance Information

- 1 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 and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of the Health and Safety at Work Act 2015; *Vehicle Inspection Requirements Manual (VIRM) – In-service Certification* and any subsequent amendments or replacements.
- 3 The VIRM is available online at <http://vehicleinspection.nzta.govt.nz/>.
- 4 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, product quality 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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of vehicle lighting.

Performance criteria

- 1.1 Types of automotive bulbs and their operation are described.
- Range may include – incandescent, halogen, vacuum tube fluorescent (VTF), high intensity discharge (HID), light emitting diode (LED).
- 1.2 Types of vehicle lamps are identified.
- Range exterior and interior lamps, instrument panel warning lamps.

Outcome 2

Demonstrate knowledge of the requirements for alignment of automotive headlamps.

Performance criteria

- 2.1 Legislative requirements relating to the alignment of headlamps are identified in accordance with the VIRM.
- 2.2 Equipment used to measure headlamp alignment is identified.

Replacement information	This unit standard replaced unit standard 24092.
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Planned review date	31 December 2022
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 October 2017	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 MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.