

Title	Rectify simple vehicle lighting faults, and adjust vehicle lamps		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to rectify simple faults in a vehicle lighting system, and adjust vehicle lamps.
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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 work practices and be in accordance with applicable service information, and company requirements 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 may include:
 - Health and Safety at Work Act 2015;
 - Land Transport Rule: Heavy Vehicles 2004, Rule 31002;
 - Land Transport Rule: Vehicle Repair 1998, Rule 34001;
 - Land Transport Rule: Vehicle Lighting 2004; Rule 35001/1;
 - *Vehicle Inspection Requirements Manual (VIRM) – In-service Certification*; and any subsequent amendments and replacements.
- 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, product quality specifications and legislative requirements.

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

Simple vehicle lighting faults refer to replacing lamps, bulbs, fuses; repairing and replacing connectors, switches and non-complicated wiring faults.

Suitable tools and equipment refer to industry approved tools and equipment that are recognised within the industry as being the most suited to complete the task in a professional and competent manner with due regard to safe work practices.

Outcomes and performance criteria

Outcome 1

Rectify simple faults in a vehicle lighting system.

Performance criteria

- 1.1 The symptoms of the fault are determined and verified.
- 1.2 Suitable test equipment is selected and used that enables faults to be located.
Range may include – voltmeter, ammeter, ohmmeter, test light.
- 1.3 The circuit and components of the system are tested to enable the cause of the fault to be located.
- 1.4 The fault is rectified to restore full serviceability of the system.
Range may include – repair, selection and replacement of components; lamps, bulbs, connectors, switches.

Outcome 2

Adjust vehicle lamps.

Performance criteria

- 2.1 Suitable equipment is selected and used that enables the lamps to be adjusted.
Range may include – headlight aligner, light board and measure.
- 2.2 Method of adjusting headlamps is determined.
Range main beam, dip beam.
- 2.3 Headlamps are adjusted.
- 2.4 Auxiliary lamps are adjusted.
Range may include – spot lamps, fog lamps, long range driving lamps.

Replacement information	This unit standard and unit standard 24092 replaced unit standard 877.
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Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 2008	31 December 2018
Review	2	21 April 2016	31 December 2023
Review	3	24 March 2022	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.