

Title	Specify the lighting requirements for a passenger coach or special purpose vehicle		
Level	5	Credits	4

Purpose	<p>This unit standard is intended for people in the automotive electrical and coachbuilding industries.</p> <p>People credited with this unit standard are able to: determine lighting requirements and legal limitations for a passenger coach or special purpose vehicle; determine types and number of lighting units, and their positioning on the vehicle; determine circuit protection for the lighting; and prepare lighting specification.</p>
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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 It is recommended that people hold credit for Unit 30564, *Demonstrate knowledge of automotive lighting* before being assessed against this unit standard.
- 2 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. This includes the knowledge and use of suitable tools and equipment.
- 3 Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
Land Transport Rule: Vehicle Lighting 2004;
Land Transport Rule: Vehicle Standards Compliance 2002.
- 4 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.
- 5 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 technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

Suitable tools and equipment means 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 working practices.

6 Range

Special purpose vehicle may include but is not limited to – ambulance, motor home, caravan, or any other vehicle designed for a specific application which requires multiple battery installations and will be running power and lighting systems on the interior and/or exterior of the vehicle.

Outcomes and performance criteria

Outcome 1

Determine lighting requirements and legal limitations for a passenger coach or special purpose vehicle.

Performance criteria

1.1 Lighting requirements and budget limitations of the vehicle operator are determined and noted, to enable the parameters for the specification to be set.

Range areas to be illuminated, required intensity of illumination, operating conditions, marker lights required, special requirements such as areas to be kept void of illumination.

1.2 Legal limitations on lighting requirements specified by the vehicle operator and any extra lighting required by law are determined and noted.

Outcome 2

Determine types and number of lighting units, and their positioning on the vehicle.

Performance criteria

2.1 Types and number of lighting units and their positioning are determined to best suit the customer, legal requirements, and the available budget.

Range main and dipped beam headlamps, fog lamps, spot lamps, search lamps, stationary and rotating hazard warning lamps, cab marker lamps, direction indicators, side marker lamps, parking lamps, stop lamps, interior lighting for cabin, passenger area lighting, cargo space lighting, step illumination.

2.2 Type, number, and positioning of the switches are determined to best suit the lighting selected and the available budget.

Outcome 3

Determine circuit protection for the lighting.

Performance criteria

- 3.1 Circuit protection and relays required to protect the lighting selected and to ensure reliable service are determined.

Outcome 4

Prepare lighting specification.

Performance criteria

- 4.1 Lighting specification is prepared, showing the technical specifications, itemised costing and recommendations for its adoption.

Range area to be illuminated, light unit specifications, light positioning, light circuit diagrams.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	9 November 1993	31 December 2022
Review	2	4 October 1996	31 December 2022
Review	3	26 February 1999	31 December 2022
Review	4	25 January 2008	31 December 2022
Review	5	25 March 2021	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.