<table>
<thead>
<tr>
<th>Title</th>
<th>Identify functions of automotive lighting systems, rectify lighting faults, and adjust vehicle lamps</th>
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<tbody>
<tr>
<td>Level</td>
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<td>Credits</td>
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| Purpose | This unit standard is for people in the automotive repair industry. People credited with this unit standard are able to: demonstrate knowledge of the functions of motor vehicle lighting systems; adjust driving lamps; and diagnose and rectify faults in a vehicle lighting system. |

| Classification | Motor Industry > Automotive Electrical and Electronics |

| Available grade | Achieved |

| Entry information |  |
| Critical health and safety prerequisites | Unit 899, *Carry out automotive wiring and circuit repairs*, or demonstrate equivalent knowledge and skills. |

**Explanatory notes**

1. The following legislation, regulations, and standards, and their amendments are required to be consulted and followed where applicable:
   - Health and Safety in Employment Act, 1992
   - Traffic Regulations, 1976

2. Reference to *suitable equipment* means industry approved equipment that are recognised within the industry as being the most suited to complete the task to a professional and competent manner with due regard to safe working practices.

3. Because of the particular nature of this unit standard, it is essential that the practical assessment evidence is obtained from commercial jobs in the workplace under normal workplace conditions.
Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of the functions of motor vehicle lighting systems.

Evidence requirements

1.1 The purpose and operation of the various kinds of headlamp are described according to manufacturer’s specifications.
   Range main and dipped beam headlamps of parabolic and ellipsoid types.

1.2 The purpose and operation of the various kinds of auxiliary lamps are described according to manufacturer’s specifications.
   Range spot lights, fog lights, long range driving lights.

1.3 The purpose and operation of the various lamps that give warnings to other road users are described according to manufacturer’s specifications.
   Range front and rear parking lamps, rear and high stop lamps, direction indicator lamps, hazard warning lamps, reversing lamps, registration illumination, day-time running lamps, night parking lamps.

1.4 The purpose and operation of various kinds of instrument panel warning lamp are described according to manufacturer’s specifications.
   Range coolant level and temperature, oil level and pressure, battery charging, high beam, low fuel, brake fail and brake fluid level.

1.5 The purpose and operation of various kinds of courtesy lamp are described according to manufacturer’s specifications.
   Range cab roof, map reading, footwell, door marker, key illumination, fade-out systems.

Outcome 2

Adjust the driving lamps on a motor vehicle.

Evidence requirements

2.1 Safe working practices are observed throughout the task.
   Range personal safety, safety of others, equipment and vehicle safety.
2.2 Suitable equipment is selected and used that enable the lamps to be adjusted.
   Range headlight aligner, white board and measure.

2.3 Headlamps are adjusted to comply with Traffic Regulations.

2.4 Driving lamps are adjusted to comply with Traffic Regulations.
   Range spot lamps, fog lamps, long range driving lamps.

**Outcome 3**
Diagnose and rectify faults in a vehicle lighting system.

**Evidence requirements**

3.1 Safe working practices are observed throughout the task.
   Range personal safety, safety of others, equipment and vehicle safety.

3.2 The symptoms of the fault are determined and verified.

3.3 Suitable test equipment that enable faults to be located is selected and used.

3.4 The circuit and components of the system are tested, and the cause of the fault is located.

3.5 The fault is rectified to restore full serviceability of the system.
   Range repair, replacement.

3.6 The position and type of all exterior vehicle lamps comply with the Traffic Regulations.

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**Replacement information**

This unit standard has been replaced by unit standard 24092 and unit standard 24093.
This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

### Status information and last date for assessment for superseded versions

<table>
<thead>
<tr>
<th>Process</th>
<th>Version</th>
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### Consent and Moderation Requirements (CMR) reference

0014


**Please note**

Providers must be granted consent to assess against standards (accredited) by NZQA, or an inter-institutional body with delegated authority for quality assurance, 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.

Consent requirements and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). 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.