

<b>Title</b>	<b>Test and repair automotive electrical circuits</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	This unit standard is for people who wish to enter or are employed in the automotive repair industry. People credited with this unit standard are able to test and repair automotive electrical circuits.
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<b>Classification</b>	Motor Industry > Automotive Electrical and Electronics
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<b>Available grade</b>	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, 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 include but are not limited to the current version of the Health and Safety at Work Act 2015 and any subsequent amendments or replacements.
- 3 Definitions
 

*Company requirements* – 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.

*Suitable tools and equipment* – 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.

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### Outcomes and performance criteria

#### Outcome 1

Test automotive electrical circuits.

**Performance criteria**

1.1 Equipment is selected to test electrical circuits.

Range may include – test lamp, multimeter, diagnostic equipment (scan tool, oscilloscope).

1.2 Electrical circuits are tested.

Range voltage, voltage drop, current, resistance.

**Outcome 2**

Repair automotive electrical circuits.

**Performance criteria**

2.1 Repair electrical circuit faults.

Range may include – lighting, fuses, fusible links, relays, switches, connectors, wiring.

2.2 Test electrical circuits to ensure correct operation.

<b>Replacement information</b>	This unit standard replaced unit standard 21676 and unit standard 24106.
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<b>Planned review date</b>	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

<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>.

**Comments on this unit standard**

Please contact 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.