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| Title | Identify, remove and replace a vehicle or machine wiring harness sub-assembly | | |
| Level | 4 | Credits | 2 |

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| Purpose | People credited with this unit standard are able to: identify and remove a wiring harness sub-assembly from a vehicle or machine; and replace a wiring harness sub-assembly on a vehicle or machine. |
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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 24105, *Demonstrate knowledge of wiring and wiring diagrams used in automotive circuits* 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: Heavy Vehicles 2004;
Land Transport Rule: Vehicle Repair 1998.
- 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 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

Outcomes and performance criteria

Outcome 1

Identify and remove a wiring harness sub-assembly from a vehicle or machine.

Performance criteria

- 1.1 The service information which includes the harness and specified circuit is identified and checked.
- 1.2 Harness is isolated so no power passes through it.
- 1.3 Wiring is disconnected and harness removed without damage to vehicle or machine trim or components.
- 1.4 Wiring is labelled and stored.

Outcome 2

Replace a wiring harness sub-assembly on a vehicle or machine.

Performance criteria

- 2.1 Harness and fittings to be installed on the vehicle or machine are located or procured.
- Range either – replacement, original.
- 2.2 Service information which includes the harness and the specified circuit is identified and checked.
- 2.3 Location where wiring is to be fitted is identified.
- 2.4 Wiring is fitted without damage, and the circuit is checked to confirm operation.

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| Replacement information | This unit standard and unit standard 24105 replaced unit standard 5757. |
| Planned review date | 31 December 2025 |

Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|-----------------|--------------------------|
| Registration | 1 | 25 January 2008 | 31 December 2022 |
| Review | 2 | 25 March 2021 | N/A |

Consent and Moderation Requirements (CMR) reference

0014

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.