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| <b>Title</b> | <b>Demonstrate knowledge of the installation of power cables</b> |                |          |
| <b>Level</b> | <b>3</b>   | <b>Credits</b> | <b>3</b> |

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| <b>Purpose</b> | People credited with this unit standard are able to demonstrate knowledge of: electricity supply cable work sites; electricity supply cable installation; and cable installation reporting and recording. |
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| <b>Classification</b> | Electricity Supply > Electricity Supply - Distribution Networks |
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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 industry and legislative requirements.
- 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; Electricity Act 1992, Electricity (Safety) Regulations 2010; and any subsequent amendments and replacements; Electricity supply industry codes of practice and documented enterprise procedures, including *Safety Manual – Electricity Industry (SM-EI)* (2015) available at [www.eea.co.nz](http://www.eea.co.nz).
- 3 Definitions  
*Asset owner* refers to a participant who owns or operates assets used for generating or conveying electricity.  
*Industry requirements* include all asset owner requirements; manufacturers' specifications; and enterprise requirements which may include the documented workplace policies, procedures, specifications, business, and quality management requirements relevant to the workplace in which assessment is carried out.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of electricity supply cable work sites.

#### Performance criteria

- 1.1 The requirements of a safe working zone are identified.
- 1.2 The cable arrangement is identified from the plan.

1.3 Installation methods are identified.

Range may include but is not limited to – equipment location, length of cable, protection of equipment, site access, site permits, protection of site access and public; evidence of four is required.

**Outcome 2**

Demonstrate knowledge of electricity supply cable installation.

**Performance criteria**

2.1 Cable installation methods are explained.

Range placement, pulling, separation from other services, tension control, rollers, winches.

2.2 Cable fixing options for pulling are explained in terms of manufacturer’s specifications.

Range evidence of three is required.

2.3 Installed cable protection systems are explained.

Range includes but is not limited to – concrete, plastic, steel, timber.

**Outcome 3**

Demonstrate knowledge of cable installation reporting and recording.

**Performance criteria**

3.1 Cable installation recording and reporting requirements to meet industry requirements are explained.

3.2 As built recording requirements are explained.

Range includes but is not limited to – depth, off set, size, joints, proximity to other services and networks.

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| <b>Planned review date</b> | 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       | 27 August 2020 | N/A                      |

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| <b>Consent and Moderation Requirements (CMR) reference</b> | 0120 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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### Comments on this unit standard

Please contact Connexis - Infrastructure Industry Training Organisation at [qualifications@connexis.org.nz](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.