

<b>Title</b>	<b>Isolate and reinstate a section of electricity distribution network</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This unit standard is for people working as control room controllers in a distribution electricity network.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of the principles of isolating a section of the distribution network; isolate and reinstate a section of the distribution network.</p>
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<b>Classification</b>	Electricity Supply > Electricity Supply - Core Skills
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<b>Available grade</b>	Achieved
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### Guidance information

- 1 Safety of personnel and plant must be a priority throughout the assessment. If the safety requirements are not met the assessment must stop.
- 2 Performance and work practices in relation to the outcomes and performance criteria must comply with:
  - all current legislation, especially the Electricity Act 1992 and any subsequent amendments, as well as any regulations, codes of practice recognised under that statute;
  - Health and Safety at Work Act 2015, the Resource Management Act 1991, and their subsequent amendments;
  - electricity supply industry codes of practice and documented enterprise procedures. These include updated versions of, *Safety Manual – Electricity Industry* (SM-EI) Wellington: Electricity Engineers' Association, available from <https://www.eea.co.nz/>.
- 3 *Industry and asset owner's requirements* include all industry and workplace documented policies, procedures, specifications, business and quality management relevant to the workplace where assessment is carried out.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of isolating a section of the electricity distribution network.

**Performance criteria**

- 1.1 Isolation and reinstatement procedures are located and explained in terms of industry and asset owner's requirements.
- 1.2 Reasons for isolation are explained in terms of site specific examples.  
Range evidence is required of three site specific examples.
- 1.3 Electrical and mechanical isolation methods are explained in terms of their application.
- 1.4 Testing methods of verifying the integrity of the electrical and/or mechanical isolation are explained.  
Range evidence is required of two methods.

**Outcome 2**

Isolate a section of electricity distribution network in accordance with industry and asset owner's requirements.

Range electrical and/or mechanical isolation.

**Performance criteria**

- 2.1 Boundaries of isolation are identified.
- 2.2 Impact of isolation on the process.
- 2.3 Isolation documentation is prepared and verified.
- 2.4 Section of the network is isolated, and the isolation integrity is verified.
- 2.5 Isolation is documented and reported.

**Outcome 3**

Reinstate a section of electricity distribution network in accordance with industry and asset owner's requirements.

Range evidence is required of electrical and/or mechanical reinstatements.

**Performance criteria**

- 3.1 Section of the plant is verified as ready for reinstatement.
- 3.2 Reinstatement is prepared for, planned, and carried out.  
Range planning includes but is not limited to – authorisations, procedures, instructions.

3.3 Section of the distribution network is reinstated.

3.4 Network status is documented.

<b>Planned review date</b>	31 December 2023
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 September 2017	31 December 2019
Review	2	26 July 2018	N/A

<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>.

#### Comments on this unit standard

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