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| <b>Title</b> | <b>Remove electricity supply field network equipment from service for access to work</b> |                |          |
| <b>Level</b> | <b>4</b>   | <b>Credits</b> | <b>8</b> |

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| <b>Purpose</b> | People credited with this unit standard are able to: action switching instructions for the safe removal and return of equipment to service; and apply and remove issuer or recipient applied safety measures. |
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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 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable legislative and industry requirements.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to
  - Health and Safety at Work Act 2015;
  - Electricity Act 1992;
  - Electricity (Safety) Regulations 2010;
  - Electricity supply industry codes of practice and documented enterprise procedures, including *Safety Manual – Electricity Industry* (SM-EI) and relevant EEA guides available from [www.eea.co.nz](http://www.eea.co.nz);
  - and any subsequent amendments and replacements.
- 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 and standards; manufacturers' specifications; and enterprise requirements which cover the documented workplace policies, procedures, specifications, business, and quality management requirements relevant to the workplace in which assessment is carried out.

*Power system* has the same meaning as power network.

*Switching instruction* is a planned sequence of operating actions (or a single action) that has been compiled in an approved format. It is sometimes referred to as an operating order or operating sequence.

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## Outcomes and performance criteria

### Outcome 1

Action switching instructions for the safe removal and return of equipment to service.

#### Performance criteria

- 1.1 Switching operations are confirmed by all parties immediately prior to performing switching procedures.
- Range may include but is not limited to – confirming with network controllers, field operators, contractors.
- 1.2 Switching operations are carried out in accordance with asset owner standards.
- Range may include but is not limited to – involvement with network controllers, field operators, and contractors.
- 1.3 Power system equipment is removed from service within agreed timeframe.
- Range may include but is not limited to – action by network controllers, field operators, and contractors.
- 1.4 Operations required to prepare plant and equipment for authorised release are carried out within timeframe specified by asset owner standards.
- Range may include but is not limited to – action by network controllers, release coordinators.
- 1.5 Points of isolation are confirmed in locked and/or tagged position.
- Range may include but is not limited to – direct observation by operators, points of isolation are open, assurance from asset owner or asset owner's agent.
- 1.6 Power system plant and equipment is operated in accordance with steps outlined in switching instructions.
- Range may include but is not limited to – action by network controllers, field operators, contractors.
- 1.7 Mechanical and electrical sources of energy associated with the planned work are isolated, discharged and rendered safe in accordance with asset owner standards.
- Range may include but is not limited to – removal of local service feeds, heating, stored energy systems, pneumatic, spring, compressed air systems.

- 1.8 Safety precautions are carried out in accordance with the SM-EI and asset owner standards.
- Range may include but is not limited to – use of voltage detectors prior to application of earths.
- 1.9 Work management systems are accepted, returned, and cancelled in accordance with asset owner standards and the SM-EI.
- Range may include but is not limited to – access permits, test permits, live line permits, minor works management systems.
- 1.10 Plant and equipment is returned to service within agreed timeframe.
- Range may include but is not limited to – action by network controllers, field operators, release coordinators, contractors.

## Outcome 2

Apply and remove issuer or recipient applied safety measures.

### Performance criteria

- 2.1 Safety devices are regularly inspected and maintained in accordance with electricity regulations.
- Range may include but is not limited to – electrically tested, in good condition, no damaged leads.
- 2.2 Checks on the condition of the safety devices are carried out immediately before application in accordance with the SM-EI.
- Range may include but is not limited to – action by field operators, contractors.
- 2.3 Safety devices are applied in accordance with manufacturer's specifications and the SM-EI.
- Range may include but is not limited to – used in the manner recommended by the manufacturer, applied in the correct order as prescribed by the SM-EI.
- 2.4 Defective components are identified and removed from service.
- Range may include but is not limited to – tagging.
- 2.5 Approval to remove safety measures to test and operate network plant and equipment is communicated to affected parties.
- Range may include but is not limited to – issuer and recipient, supervisor, work party, field operator.

2.6 Checks are carried out to ensure all personnel are clear of the network plant and equipment while doing testing on the network plant and equipment.

Range may include but is not limited to – field operators, contractors.

2.7 Safety measures are replaced immediately after completion of test procedures unless otherwise specified by the SM-EI.

Range may include but is not limited to – system operators, field operators, contractors.

2.8 Defective safety measures are removed from service in accordance with manufacturer’s specifications and asset owner standards.

Range may include but is not limited to – field operators, contractors.

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| <b>Planned review date</b> | 31 December 2026 |
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**Status information and last date for assessment for superseded versions**

| Process      | Version | Date              | Last Date for Assessment |
|--------------|---------|-------------------|--------------------------|
| Registration | 1       | 3 August 1999     | 31 December 2018         |
| Revision     | 2       | 10 September 2004 | 31 December 2018         |
| Review       | 3       | 24 January 2006   | 31 December 2018         |
| Revision     | 4       | 25 October 2007   | 31 December 2019         |
| Review       | 5       | 16 March 2017     | 31 December 2023         |
| Review       | 6       | 30 September 2021 | 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>.

**Comments on this unit standard**

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