

Title	Isolate and reinstate a section of an electricity generation plant		
Level	4	Credits	10

Purpose	<p>This unit standard is for people working in a hydro or thermal electricity generation plant.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of the principles of isolating a section of electricity generation plant; and isolate, and reinstate a section of electricity generation plant.</p>
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Classification	Electricity Supply > Electricity Supply - Core Skills
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Available grade	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; 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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the principles of isolating a section of electricity generation plant.

Performance criteria

- 1.1 Isolation and reinstatement procedures are located and explained.
- 1.2 Reasons for isolation are explained in terms of site-specific examples.
Range evidence is required of three site specific examples.
- 1.3 Mechanical and electrical isolation methods are explained in terms of their application.
- 1.4 A testing method for verifying the integrity of an electrical isolation is explained.
- 1.5 Testing methods of verifying the integrity of the mechanical isolation are explained.
Range evidence of three methods is required.

Outcome 2

Isolate a section of electricity generation plant.

Range electrical and mechanical isolation;
evidence of three isolations is required.

Performance criteria

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

Outcome 3

Reinstate a section of electricity generation plant.

Range evidence is required of three reinstatements, one of which must be mechanical or electrical.

Performance criteria

- 3.1 Section of the plant is verified as ready for reinstatement.
- 3.2 De-isolations are prepared for, planned, and carried out.
- Range planning includes but is not limited to – authorisations, procedures, instructions.
- 3.3 Section of the plant is reinstated.
- 3.4 Plant status is documented.

Planned review date	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	16 March 2017	31 December 2023
Review	2	30 September 2021	N/A

Consent and Moderation Requirements (CMR) reference	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@infrastructureito.org.nz if you wish to suggest changes to the content of this unit standard.