

Title	Demonstrate knowledge of live line theory and procedures		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to demonstrate knowledge of: live line theory, techniques, practices and asset owner approval; and how to take out live work permits.
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Classification	Electricity Supply > Electricity Supply - Live Work
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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 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) Wellington: Electricity Engineers' Association available at 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.
- 4 It is recommended people achieve Unit 10508, *Identify electricity systems used in the electricity supply industry*; Unit 10513, *Conduct and inspection of electrical lines*; and Unit 12300, *Demonstrate knowledge of safety statutes and codes used in the electricity supply industry*; or demonstrate equivalent knowledge and skills, before being assessed against this unit standard.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of live line theory, techniques, practices and asset owner approval.

Performance criteria

- 1.1 Live line rationale and methodology are explained.
Range potential, induction, shunting, bonding, covering up.
- 1.2 Live line techniques are explained.
Range at least one of the following – hot stick, bare hand, gloved hand, glove and barrier.
- 1.3 Live line codes of practice are described.
- 1.4 Minimum approach distances are described.
Range live line, their measurement and application.
- 1.5 Asset owner approval to work on live line is described.
Range includes but is not limited to – financial approvals, operating requests, live work permit.

Outcome 2

Demonstrate knowledge of how to take out live work permits.

Performance criteria

- 2.1 Auto reclosers are described in terms of function and operating methods.
- 2.2 Procedure to gain asset owner approval to work on live line is described.
- 2.3 The process for taking out a live work permit for a nominated circuit is described.
Range includes but is not limited to – requesting, receiving, returning.

Planned review date	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	19 June 1997	31 December 2022
Review	2	27 April 2001	31 December 2022
Revision	3	12 June 2001	31 December 2022
Review	4	22 October 2003	31 December 2022
Review	5	18 September 2009	31 December 2022
Revision	6	21 May 2010	31 December 2022
Review	7	27 February 2020	N/A

Consent and Moderation Requirements (CMR) reference

0120

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 if you wish to suggest changes to the content of this unit standard.