

<b>Title</b>	<b>Demonstrate knowledge of plant and equipment in electricity supply networks</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of plant and equipment in electricity supply networks.
----------------	--

<b>Classification</b>	Electricity Supply > Electricity Supply - Core Skills
-----------------------	---

<b>Available grade</b>	Achieved
------------------------	----------

---

### 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; and any subsequent amendments and replacements; Electricity Act 1992; Electricity (Safety) Regulations 2010; Electricity supply industry codes of practice and documented enterprise procedures, including *Safety Manual – Electricity Industry (SM-EI)* (2021) available from [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 cover the documented workplace policies, procedures, specifications, business, and quality management requirements relevant to the workplace in which assessment is carried out.
- 4 Range  
*Plant and equipment* may include but is not limited to – lines, cables, substation, earth switch, disconnecter, circuit breaker, outdoor bus, surge arrester, indoor switchboard, supply bus, electrical drop outs (DDO or EDO) reclosers, reactors, capacitors, transformers.  
Candidates should demonstrate knowledge of plant and equipment used in the electricity supply sector in which they work.

## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of plant and equipment in electricity supply networks.

### Performance criteria

- 1.1 Primary components used in electricity supply networks are identified and described.
- Range evidence of ten components is required.
- 1.2 Typical operating voltages of distribution, traction and transmission are identified.
- 1.3 Purpose and function of primary components used in electricity supply networks are described.
- Range evidence of ten components is required.

<b>Planned review date</b>	31 December 2024
----------------------------	------------------

### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 October 2003	31 December 2013
Rollover and Revision	2	20 June 2008	31 December 2013
Review	3	21 July 2011	31 December 2013
Review	4	15 August 2013	31 December 2021
Review	5	28 November 2019	N/A
Revision	6	28 January 2021	N/A
Revision	7	27 May 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.