

<b>Title</b>	<b>Install high voltage electricity network overhead conductors</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	People credited with this unit standard are able to install high voltage electricity network overhead conductors.
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<b>Classification</b>	Electricity Supply > Electricity Supply - Distribution Networks
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	Unit 10509, <i>Climb and work on electricity network structures</i> ; Unit 28112, <i>Operate and store machinery, plant, and equipment in an electricity network environment</i> ; and Unit 10512, <i>Joint electricity network overhead conductors</i> ; or demonstrate equivalent knowledge and skills.
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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 industry and legislative 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 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.  
*HV* refers to high voltage and includes voltages greater than 1000 volts AC.  
*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.

## Outcomes and performance criteria

### Outcome 1

Install high voltage electricity network overhead conductors.

Range evidence of three installations of different types is required.

### Performance criteria

1.1 Installation work plan, equipment and method are established.

Range may include – conductor size and type, structure arrangement, access, rigging, safety.

1.2 HV conductor sag tension is established.

Range sag charts, clearances, line configuration, structure type, loadings.

1.3 Conductors are strung according to manufacturer’s specifications.

1.4 Conductors are installed to specified sag and tension requirements.

1.5 Conductors are terminated in dead end and attached to insulators.

Range binding, chafers, clamp, compression, preformed;  
evidence of two methods is required.

1.6 Construction earths are connected to structure hardware and conductor hardware is attached.

1.7 Visual checks and tests are carried out on overhead conductors.

1.8 Completed work is reported concisely, in the required format, and within the scheduled time-frame.

<b>Planned review date</b>	31 December 2024
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 April 2004	31 December 2016
Rollover and Revision	2	25 October 2007	31 December 2016
Review	3	20 March 2014	31 December 2021
Review	4	28 November 2019	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>.

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### Comments on this unit standard

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