

Title	Joint high voltage polymeric insulated power cables up to 33kV in the electricity supply industry		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to joint high voltage polymeric insulated cables up to 33kV in the electricity supply industry.
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Classification	Electricity Supply > Electricity Supply - Distribution Networks
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Available grade	Achieved
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Prerequisites	Unit 10547, <i>Joint high voltage polymeric insulated power cables up to 22kV in the electricity supply industry</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 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) 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.
HV is defined as ‘high voltage’ and includes voltages exceeding 1000V 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

Joint high voltage polymeric insulated cables up to 33kV in the electricity supply industry.

Range evidence of three joints is required.

Performance criteria

1.1 Work site is prepared, and a safe working zone is established.

Range includes – scope of work, cable identification, cable testing, tools and equipment.

1.2 Joint is prepared.

Range cleaning, conductor preparation, stripping, earthing.

1.3 Conductors are terminated and jointed.

Range may include but is not limited to – compression, mechanical, shearbolt, cleanliness, moisture management; evidence of three is required.

1.4 Conductors are re-insulated.

Range may include but is not limited to – barrier, elastomer, heat shrink, tapes, resins, void filling, screens, cable core separation; evidence of four is required.

1.5 Earth continuity, and mechanical and environmental integrity are re-established.

Range bedding layer, screens, steel wire armour, steel tape armour.

1.6 Cables are tested after jointing.

Range includes – visual, HV pressure testing, insulation resistance, continuity test, sheath integrity, phase testing to manufacturers' specifications.

1.7 Joint as built is recorded to asset owner's standards.

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 August 1997	31 December 2016
Review	2	27 April 2001	31 December 2016
Review	3	22 October 2003	31 December 2016
Review	4	21 August 2009	31 December 2016
Review	5	18 September 2014	31 December 2022
Review	6	27 February 2020	31 December 2022
Review	7	27 August 2020	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@connexis.org.nz if you wish to suggest changes to the content of this unit standard.