

Title	Joint high voltage paper insulated cable to polymeric insulated cable up to 22kV using a transition jointing method		
Level	4	Credits	15

Purpose	People credited with this unit standard are able to joint high voltage paper insulated cable to polymeric insulated cable up to 22kV using a transition jointing method.
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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

- 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.
- 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.
- 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 paper insulated cable to polymeric insulated cable up to 22kV using a transition jointing method.

Performance criteria

- 1.1 Work site is prepared, and safe working zone is established.
 Range scope of work, identification and testing of cables, permit requirements, tools and equipment.
- 1.2 Joints are prepared.
 Range cleaning, conductor preparation, stripping, earthing, minimum bending radius applied.
- 1.3 Conductors are jointed.
 Range compression, mechanical.
- 1.4 Conductors are re-insulated.
 Range may include but is not limited to – barrier, cold applied, heat shrink, tapes, resins; evidence of two is required.
- 1.5 Earth continuity is re-established as per manufacturer’s instructions.
- 1.6 Mechanical and environmental integrity are re-established.
 Range may include but is not limited to – cold applied, heat shrink, tapes, compounding including resins; evidence of two is required.
- 1.7 Cables are tested after jointing.
 Range may include but is not limited to – HV pressure testing, insulation, and phase testing to network specifications.
- 1.8 Joint as built is recorded to asset owner standards.
 Range location, cable type, joint type, test results.

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	23 February 2004	31 December 2016
Rollover and Revision	2	26 November 2007	31 December 2016
Review	3	18 September 2014	31 December 2019
Review	4	17 August 2017	31 December 2022
Review	5	27 August 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.