Title	**Joint live low voltage polymeric insulated power cables in the electricity supply industry**		
Level	**4**	**Credits**	**10**

Purpose	People credited with this unit standard are able to joint live low voltage polymeric insulated power cables in the electricity supply industry.

Classification	Electricity Supply > Electricity Supply - Live Work

Available grade	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; 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, and IEC 60900:2018 *Live working – Hand tools for use up to 1000 V AC and 1500 V DC*.

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.
Low voltage – voltages exceeding 50V AC but not exceeding 1000V AC.

4 This unit standard excludes tough plastic sheath (TPS) type cables.

Outcomes and performance criteria

Outcome 1

Joint live low voltage polymeric insulated power cables in the electricity supply industry.

Range evidence of three joints is required.

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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 Joint is prepared.

Range includes but is not limited to – cleaning, stripping, conductor preparation.

1.3 Conductors are jointed.

Range compression, mechanical.

1.4 Conductors are re-insulated.

Range heat shrink, tapes, resin, cold applied.

1.5 Earth continuity is re-established for neutral screen cables.

1.6 Mechanical integrity is re-established.

Range heat shrink, tapes, compounding including resins, cold applied.

1.7 Cables are tested after jointing.

Range includes but is not limited to – phasing, rotation and voltage.

1.8 Joint as built is recorded to asset owner standards.

Range includes but is not limited to – location, phasing (core to core detail).

Planned review date	31 December 2025

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 October 2003	31 December 2016
Rollover and Revision	2	24 August 2007	31 December 2016
Review	3	16 April 2010	31 December 2016
Review	4	18 September 2014	31 December 2022
Review	5	27 February 2020	N/A

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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.

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