

National Certificate in Electricity Supply (Cable Jointer – High Voltage) (Level 4) with an optional strand in Cable Jointer Advanced

Level 4

Credits 44 (or 82 with optional strand)

Purpose

This national certificate is awarded to people who have demonstrated competence in the skills and knowledge required for employment as a high voltage Cable Jointer in the electricity supply industry.

The qualification covers the jointing and terminating of high voltage cables in the following cable categories

- Joint HV polymeric insulated power cables up to 11kV
- Joint HV paper insulated power cables up to 11kV
- Terminate HV polymeric insulated power cables up to 11kV
- Terminate HV paper insulated power cables up to 11kV

The optional strand allows the trainee to further develop these skills for working on the following cable categories

- Joint HV polymeric insulated power cables from 22kV to 33kV
- Joint HV paper insulated power cables from 22kV to 33kV
- Terminate HV polymeric insulated power cables from 22kV to 33kV
- Terminate HV paper insulated power cables from 22kV to 33kV
- Joint electricity supply power cables up to and including 11kV using transition jointing methods

This qualification contains unit standards that build on the knowledge and skills recognised by the National Certificate in Electricity Supply (Cable Jointer – Low Voltage) (Level 3) [Ref: 0869], and will allow candidate to progress to the National Certificate in Electricity Supply (Cable Jointer – Specialist) (Level 5) [Ref: 1108].

Special Notes

Prerequisite: National Certificate in Electricity Supply (Cable Jointer – Low Voltage) (Level 3) [Ref: 0869], or demonstrate equivalent knowledge and skills.

Recognition of current competence will be carried out by accredited providers or Electricity Supply Industry Training Organisation (ESITO) registered assessors.

Credit Range

	Compulsory	Elective	Cable Jointer Advanced Optional Strand
Level 3 credits	4	-	-
Level 4 credits	22	0-18	22
Level 5 or above credits	-	0-18	16
Minimum totals	26	18	38
Qualification totals	44		82

Requirements for Award of Qualification

Award of NQF Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided in section 7 of the New Zealand Qualifications Authority (NZQA) *Rules and Procedures* publications available at <http://www.nzqa.govt.nz/ncea/acrp/index.html>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

Summary of Requirements

- Compulsory standards
- Elective – A minimum of 18 credits as specified

The following strand is optional

- Cable Jointer Advanced Optional Strand

Detailed Requirements

Compulsory

The following standards are required

Engineering and Technology > Electricity Supply > Electricity Supply - Core Skills

ID	Title	Level	Credit
17028	Demonstrate the requirements for holding permits on high voltage electrical equipment	3	2
23899	Carry out polarity and phasing on HV electricity networks	3	2

Engineering and Technology > Electricity Supply > Electricity Supply - Distribution Networks

ID	Title	Level	Credit
10547	Joint HV polymeric insulated power cables up to and including 11kV in the electricity supply industry	4	5
10548	Joint HV paper insulated power cables up to and including 11kV in the electricity supply industry	4	6
20061	Terminate HV polymeric insulated power cables up to and including 11kV in the electricity supply industry	4	5
20062	Terminate HV paper insulated power cables up to and including 11kV in the electricity supply industry	4	6

Elective

A minimum of 18 credits at Level 4 or above

Engineering and Technology > Electricity Supply > Electricity Supply - Distribution Networks

ID	Title	Level	Credit
10510	Use machinery, plant and equipment in an electricity network environment	4	6
10518	Install and service street lighting	4	8
18024	Install structure mounted electrical equipment in the electricity supply industry environment	4	6
25074	Locate and repair or replace faulty components or repair faults in a distribution network	4	8

Field	Subfield	Domain
Engineering and Technology	Electricity Supply	Electricity Supply – Core Skills
		Electricity Supply – Live Work
		Electricity Supply – Testing

Cable Jointer Advanced Optional Strand

The following standards are required

Engineering and Technology > Electricity Supply > Electricity Supply - Distribution Networks

ID	Title	Level	Credit
10550	Joint HV polymeric insulated power cables from 22kV to 33kV in the electricity supply industry	4	8
10551	Joint HV paper insulated power cables from 22kV to 33kV in the electricity supply industry	5	8
20063	Terminate HV polymeric insulated power cables from 22kV to 33kV in the electricity supply industry	4	8

ID	Title	Level	Credit
20064	Terminate HV paper insulated power cables from 22kV to 33kV in the electricity supply industry	5	8
20535	Joint electricity supply power cables up to and including 11kV using transition jointing methods	4	6

Transition Arrangements

Version 3

This qualification was reviewed and issued as version 3 in order to better reflect the skills and abilities required by cable jointers in the Electricity Supply Industry.

Changes to structure and content

- Standard 23899 was added to the compulsory section.
- Minimum credit requirement for the elective section was increased from 16 to 18 credits to keep the qualification at level 4.
- Standard 17028 was moved to this qualification from the National Certificate in Electricity Supply (Cable Joints – Low Voltage) (Level 3) [Ref: 0869].
- Standard 12298 was moved from this qualification to the National Certificate in Electricity Supply (Cable Joints – Low Voltage) (Level 3) [Ref: 0869].

For detailed information see [Review Summaries](#) on the NZQA website.

All existing candidates may either complete the version of the qualification on which they are enrolled or transfer their existing achievements to version 3. All new trainees will be enrolled in programmes leading to version 3 of the qualification.

This qualification contains a standard that replaced an earlier standard. For the purposes of this qualification people who have gained credit for the expiring standard are exempt from the requirement to gain credit for the replacement standard – see table below.

Credit for	Exempt from
18029	23899

It is anticipated that no existing candidates are disadvantaged by these transition arrangements. However, candidates may appeal in the first instance to the Electricity Supply Industry Training Organisation, which will consider any appeal on a case by case basis. See contact details below.

Previous versions of the qualification

Version 2 was issued to better reflect industry needs for flexible and achievable qualifications that support learning and progression. The content was amended to reflect the requirements of the industry and focussed on high voltage cable jointing in the range of 1000 volts to 33kV.

NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	June 2001	December 2008
Review	2	August 2004	December 2010
Review	3	March 2008	N/A

Standard Setting Body

Electricity Supply Industry Training Organisation
PO Box 1245
HAMILTON

Telephone 07 834 3038
Facsimile 07 834 8160
Email info@esito.org.nz

Planned Review

Any person or organisation may contribute to the review of this qualification by sending feedback to the standard setting body at the above address.

Next Review	2012
-------------	------

Certification

The certificate will display the logos of NZQA and the Electricity Supply Industry Training Organisation.

Classification

This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

NQF Classification		NZSCED	
Code	Description	Code	Description
318	Engineering and Technology > Electricity Supply	031311	Engineering and Related Technologies > Electrical and Electronic Engineering and Technology > Power Line Installation and Maintenance

Quality Management Systems

Providers and Industry Training Organisations must be accredited by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.

DRAFT