Qualification details

Title	New Zealand Certificate in Electricity Supply (Field Switching) (Level 3)		
Version	1	**Qualification type**	**Certificate**
Level	3	**Credits**	**77**
NZSCED	031311 Engineering and Related Technologies > Electrical and Electronic Engineering and Technology > Power Line Installation and Maintenance		
Qualification developer	Infrastructure ITO		
Next review	December 2020		
Approval date	August 2015		
Strategic purpose statement	This qualification is suitable for people entering into or are currently employed in the Electricity Supply Industry and changing their career path. Electricians or line mechanics may diversify into Field Switching. This qualification is designed to provide the Electricity Supply Industry with Field Switching graduates who have sufficient technical and theoretical knowledge, practical skills and experience to work on asset owners' networks to safely carry out field switching to industry practices. Graduates will be able to work safely to industry standards, taking responsibility for their work and that of others, and be capable of working with limited supervision.		
Outcome Statement	**Graduate profile**	Graduates of this qualification will be able to: - Apply industry standards and codes of practice for carrying out switching operations on electricity networks. - Apply a range of skills and electrical knowledge to the operation of overhead switchgear and protection systems used on networks. - Ensure that health and safety requirements are met while working on electricity supply structures. - Apply a range of communication procedures and processes relevant to field switching.	
	Education pathway	Graduates may progress to the following Level 4 certificates, or qualifications for additional electricity supply roles. These include Field Switching and Substation Maintainence. - New Zealand Certificate in Electricity Supply (Transmission Line Mechanic) (Level 4) [Ref: 2705] - New Zealand Certificate in Electricity Supply (Line Mechanic Distribution) (Level 4) [Ref: 2197]	

		- New Zealand Certificate in Electrical Engineering Theory and Practice (Trade) (Level 4) [Ref: 2388]
	Employment pathway	Graduates of this qualification will be eligible for employment as a Field Switcher in the electricity supply industry.

Qualification specifications

Qualification award	This qualification will be awarded by the Infrastructure ITO as the qualification developer, standard setting body and industry training organisation arranging training leading to the qualification under Section 5 of the Industry Training Act 1992. This qualification may also be awarded by any Tertiary Education Organisation (TEO) accredited to deliver a programme leading to the qualification. The formal document certifying the award of this qualification bears the Infrastructure ITO and NZQF logos and, where applicable, the name and logo of the TEO offering the programme of training leading to the award of the qualification. In addition, it will have the full qualification title and the NZQF reference number, plus the date of award of the qualification.
Evidence requirements for assuring consistency	TEOs that own and deliver programmes are responsible for ensuring the consistency of assessment within their programmes. They must be able to demonstrate the alignment of their graduates' outcomes to the qualification graduate profile outcomes. They must be able to show alignment with the registration requirements with the classes of registration that a graduate of this qualification may be eligible for. Evidence of consistency of graduate outcomes may include: - An audit trail of graduate programme results and subsequent employment outcomes. - Evidence of employer support of the graduates of the programme and their feedback that the graduates display the graduate profile outcomes. Use of existing programme data will be encouraged wherever possible. All TEOs either arranging training or delivering programmes that lead to the award of the qualification are required to participate in a consistency process scheduled by NZQA. The purpose of the managing consistency event is to: • review evidence associated with achievement of qualification outcomes at the level of the qualification. • identify issues or opportunities associated with outcome achievement. Further information can be found on the NZQA website. For full details of the Infrastructure ITO arrangements for managing consistency contact the Infrastructure ITO Quality

	Assurance team.
Minimum standard of achievement and standards for grade endorsements	Achievement of all outcomes.
Other requirements for the qualification (including regulatory body or legislative requirements)	None

General conditions for the programme leading to the qualification

General conditions for programme	TEOs offering programmes leading to this qualification must maintain currency with amendments to, and replacements of, relevant legislation, regulations, rules, and New Zealand standards for the electricity supply industry. Programmes must reflect industry best practice and currency. For detailed guidelines for programmes on these and any recommended unit standards visit http://www.connexis.org.nz/qualifications

Conditions relating to the Graduate profile

Qualification outcomes		**Conditions**
1	Apply industry standards and codes of practice for carrying out switching operations on electricity networks. Credits 18	Programmes must ensure that the competencies meet industry requirements for the role of a field switcher operating overhead and ground mounted switchgear and maintenance of protection equipment. Programmes must include coverage of the following areas: - health and safety, codes of practice, legislation and regulations as applied to the electricity supply industry; - theory and industry practice relevant to field switching; - work instructions, safety signage, Electricity Engineers' Association (EEA) guides and manuals including the Safety Manual – Electricity Industry (SM-EI) 1, 2 & 3 - primary works management (permit holders). The following unit standards must be used to assess these conditions: 12300, 10508, 12387, 20091, 20093, 12295, 10526, 18275, 20092, 28020, 23896, 10509, 10507, 17602, 18038, 17025, 17026, 17027, 26551, 26552
2	Apply a range of skills and electrical knowledge to the operation of overhead switchgear and protection systems used on networks. Credits 12	
3	Ensure that health and safety requirements are met while working on electricity supply structures. Credits 34	
4	Apply a range of communication procedures and processes relevant to field switching. Credits 13	

Republication information

Version 1 of this qualification was republished in October 2015 to correct the NZSCED detailed field classification.