Qualification details

Qualification number/Te nama o te tohu mātauranga	**3586**		
English title/Taitara Ingarihi	New Zealand Certificate in Electricity Supply (Fault Response and Switching) (Level 4) with strands in Distribution Fault Response~~,~~ and Distribution Network Switching~~, Transmission Switching, and Transmission Switching Control~~		
Māori title/Taitara Māori			
Version number/Te putanga	~~1~~2	**Qualification type/Te momo tohu**	Certificate
Level/Te kaupae	4	**Credits/Ngā whiwhinga**	85 - 140
NZSCED/Whakaraupapa	031311 Engineering and Related Technologies > Electrical and Electronic Engineering and Technology > Power Line Installation and Maintenance		
Qualification developer/Te kaihanga tohu	Connexis Infrastructure ITO		
Next review /Te rā arotake	~~31 December 2022~~DD Month 2025		

Outcome statement/Te tauāki ā-hua

Strategic Purpose statement/ Te rautaki o te tohu
This qualification is designed to provide the electricity supply industry with fault response and switching graduates who have sufficient technical and theoretical knowledge, practical skills and experience to work on asset owners' networks. They will be able to safely carry out fault response or ~~network and~~ distribution ~~transmission~~ switching to electricity supply industry ~~practices~~standards. This qualification is suitable for people ~~entering into, or~~ who are ~~currently~~ employed in the electricity supply industry. They may be changing their career path from elsewhere in the electricity supply industry. Graduates will be able to work safely to industry standards and prescribed procedures, taking responsibility for their work and that of ~~others~~trainees seeking electrical registration, and be capable of working with limited supervision. ~~The strands recognise specialist skills and knowledge specific to specialised roles and contexts relevant to the fault response and switching sector of the electricity supply industry.~~Graduates with the Distribution Fault Response strand will be able to diagnose faults and restore supply to distribution networks in the electricity supply industry. Registered Distribution Line Mechanics will be eligible to apply to the Electricity Workers' Registration Board (EWRB) for registration as a Distribution Line Mechanic (endorsed). Graduates with the Distribution Networks Switching strand will able to work in complex switching operations on distribution networks in the electricity supply industry.

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Graduate Profile/Ngā hua o te tohu
Graduates will be able to: - Interpret electrical codes of practice and industry standards and apply on-job skills when carrying out fault response and switching operations on electricity supply networks. - ~~Plan~~ Identify health and safety requirements and apply to work on electricity supply networks ~~in the electricity supply industry~~. Graduates of the Distribution Fault Response strand will also be able to: - Apply knowledge of fault finding and the skills required to carry out restoration of supply on the distribution networks in the electricity supply industry to the standard required for EWRB registration as a Distribution Line Mechanic (endorsed).~~.~~ Graduates of the Distribution Network Switching strand will also be able to: - Apply knowledge of complex network switching to work on distribution networks in the electricity supply industry. ~~Graduates of the Transmission Switching strand will also be able to:~~ ~~- Apply knowledge of maintenance switching and the practical skills required to work on transmission networks in the electricity supply industry.~~ ~~Graduates of the Transmission Switching Control strand will also be able to:~~ ~~- Apply knowledge of transmission switching and the practical skills required to coordinate and control complex switching processes on transmission networks in the electricity supply industry.~~

Education Pathway/ Ngā huarahi mātauranga
This qualification builds on the: New Zealand Certificate in Electricity Supply (Introductory) (Level 2) [Ref: 2136]. ~~New Zealand Certificate in Electricity Supply (Field Switching) (Level 3) [Ref: 2835].~~ This qualification may lead to the: New Zealand Certificate in Electricity Supply (Power Technician) (Level 5) [Ref: 3535]. ~~Qualified electricians, substation maintainers or line mechanics working in the Electricity Supply Industry may diversify into Fault Response and Switching.~~

Employment, Cultural, Community Pathway/ Ko ngā huarahi ā-mahi, ā-ahurea, ā-whānau, ā-hapū, ā-iwi, ā-hapori anō hoki
Graduates of this qualification will be able to work as a Fault Response technician,~~and~~ Switching ~~tradesperson~~Operator, ~~Maintenance Switcher~~ or ~~a~~ Faultperson ~~man~~ in the Electricity Supply Industry. Graduates with the Distribution Fault Response strand will be eligible to apply to the EWRB for registration as a Distribution Line Mechanic (endorsed). ~~Electrical Worker's Registration Board class of registration line mechanic endorsement, to carry out fault work as a line mechanic.~~

Qualification Specifications/ Ngā tauwhāititanga o te tohu

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Qualification Award/ Te whakawhiwhinga o te tohu	This qualification can be awarded by any tertiary education organisation with an approved programme of study or industry training leading to the qualification.
Evidence requirements for assuring consistency/ Ngā taunaki hei whakaū i te tauritenga	Evidence may include: • Review of internal and external moderation processes and results relating to the assessment of graduate outcomes • Industry feedback and actions taken by the Tertiary Education Organisation in response to feedback • Review of programme completion data and course results • Post-graduate surveys (which must include survey of graduates and employers) • Any other relevant evidence.
Minimum standard of achievement and standards for grade endorsements/ Te pae o raro e tutuki ai, ngā paerewa hoki hei whakaatu i te taumata o te whakatutukinga	Achieved.
Other requirements for the qualification (including regulatory body or legislative requirements)/ Kō ētahi atu here o te tohu (tae atu hoki ki ngā here ā-hinonga whakamarumaru, ki ngā here ā-ture rānei)	None.
General conditions for programme/ Ngā tikanga whānui o te hōtaka	Learners must hold the New Zealand Certificate in Electricity Supply (Introductory) (Level 2) [Ref: 2136], or demonstrate equivalent knowledge and skills, before enrolling in this qualification.

Conditions relating to the Graduate Profile /Ngā tikanga e hāngai ana ki nga hua o te tohu

	Qualification outcomes/ Ngā hua	Credits/Ngā whiwhinga	Conditions/Ngā tikanga
1.	Interpret electrical codes of practice and industry standards and apply on-job skills when carrying out fault response and/or switching operations on electricity supply networks.	40	
2.	~~Plan~~ Identify health and safety requirements and apply to work on networks in the electricity supply industry.	20	
Distribution Fault Response strand			
3.	Apply knowledge of fault finding and the skills required to carry out restoration of supply on the distribution networks in the electricity supply industry to the standard required for EWRB registration as a Distribution Line	80	

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	Mechanic (endorsed).		
Distribution Network Switching strand			
4.	Apply knowledge of complex network switching to work on distribution networks in the electricity supply industry.	60	
~~Transmission Switching strand~~			
~~**5.**~~	~~Apply knowledge of maintenance switching and the practical skills required to work on transmission networks in the electricity supply industry.~~	~~25~~	
~~**Transmission Switching Control strand**~~			
~~**6.**~~	~~Apply knowledge of transmission switching and the practical skills required to coordinate and control complex switching processes on transmission networks in the electricity supply industry.~~	~~50~~	

Transition information/ He kōrero whakawhiti

Replacement information/ He kōrero mō te whakakapi	
Additional transition information/ Kō ētahi atu kōrero mō te whakakapi	Version 2 of this qualification was published in Month YYYY following an early review. The last date for entry into programmes leading to version 1 of the qualification is 31 December 2020. The last date for assessments to take place for Version 2 of this qualification is 31 December 2022. People currently working towards version 2 may either complete the requirements for that version by that date or transfer to version 2. It is the intention that no trainee should be disadvantaged by these transition arrangements. Any person who considers they have been disadvantaged may appeal to the qualification developer Connexis Infrastructure ITO at qualifications@connexis.org.nz or 04 499 9144.