

Qualification details

Title	New Zealand Certificate in Electricity Supply (Fault Response and Switching) (Level 4) with strands in Distribution Fault Response, Distribution Network Switching, Transmission Switching, and Transmission Switching Control		
Version	1	Qualification type	Certificate
Level	4	Credits	85 (up to 140 depending on strand)
NZSCED	031311 Engineering and Related Technologies > Electrical and Electronic Engineering and Technology > Power Line Installation and Maintenance		
Qualification developer	Infrastructure ITO		
Next review	31 December 2022		
Approval date	March 2017		
Strategic purpose statement	<p>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 transmission switching to industry practices.</p> <p>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.</p> <p>Graduates will be able to work safely to industry standards and prescribed procedures, taking responsibility for their work and that of others, and be capable of working with limited supervision.</p> <p>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.</p>		
Outcome Statement	Graduate profile	<p>Graduates will be able to:</p> <ul style="list-style-type: none"> - Interpret codes of practice and industry standards and apply on-job skills when carrying out fault response and switching operations on electricity supply networks. - Plan health and safety requirements and apply to work on networks in the electricity supply industry. <p>Graduates of the Distribution Fault Response strand will also be able to:</p> <ul style="list-style-type: none"> - Apply knowledge of fault finding and the skills required to 	

		<p>carry out restoration of supply on the distribution networks in the electricity supply industry.</p> <p>Graduates of the Distribution Network Switching strand will also be able to:</p> <ul style="list-style-type: none"> - Apply knowledge of complex network switching to work on distribution networks in the electricity supply industry. <p>Graduates of the Transmission Switching strand will also be able to:</p> <ul style="list-style-type: none"> - Apply knowledge of maintenance switching and the practical skills required to work on transmission networks in the electricity supply industry. <p>Graduates of the Transmission Switching Control strand will also be able to:</p> <ul style="list-style-type: none"> - 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	<p>This qualification builds on the:</p> <p>New Zealand Certificate in Electricity Supply (Field Switching) (Level 3) [Ref: 2835].</p> <p>Qualified electricians, substation maintainers or line mechanics working in the Electricity Supply Industry may diversify into Fault Response and Switching.</p>
	Employment pathway	<p>Graduates of this qualification will be able to work as a Fault Response and Switching tradesperson, Maintenance Switcher or a Faultman in the Electricity Supply Industry.</p> <p>Graduates with the Distribution Fault Response strand will be eligible to apply for Electrical Worker's Registration Board class of registration line mechanic endorsement, to carry out fault work as a line mechanic.</p>

Qualification specifications

Qualification award	<p>This qualification can be awarded by any organisation with an approved programme or accredited to deliver an approved programme leading to the qualification.</p>
Evidence requirements for assuring consistency	<p>Evidence may include:</p> <ul style="list-style-type: none"> - 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.

Minimum standard of achievement and standards for grade endorsements	Achieved.
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	<p>Tertiary Education organisations (TEOs) offering programmes leading to this qualification must maintain currency with amendments to, and replacements of, relevant legislation, regulations, rules, and Australia/New Zealand standards.</p> <p>Programme developers must consider the needs of asset owners.</p> <p>It is recommended that programme developers refer to the more detailed condition guidelines related to this qualification.</p> <p>For a copy of the guidelines document contact the qualification developer at: qualifications@connexis.org.nz.</p>
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Conditions relating to the Graduate profile

Qualification outcomes		Conditions
1	<p>Interpret codes of practice and industry standards and apply on-job skills when carrying out fault response and/or switching operations on electricity supply networks.</p> <p>Credits 40</p>	
2	<p>Plan health and safety requirements and apply to work on networks in the electricity supply industry.</p> <p>Credits 20</p>	
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. Credits 80	
Distribution Network Switching strand		
4	Apply knowledge of complex network switching to work on distribution networks in the electricity supply industry. Credits 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. Credits 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. Credits 50	

Transition information

Replacement information	<p>This qualification replaced:</p> <ul style="list-style-type: none"> National Certificate in Electricity Supply (Distribution Faultman) (Level 4) with strands in Line Mechanic, and Electrician [Ref: 1624] National Certificate in Electricity Supply (Field Switcher) (Level 4) with optional strands in Distribution Networks, Transmission Networks, and Operational and Co-ordination Planning [Ref: 1117].
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The last date for entry into programmes leading to the replaced qualifications is 31 December 2018.

People currently working towards either of the replaced qualifications may either complete the requirements for that qualification by 31 December 2020 or transfer to this qualification.

It is the intention of Infrastructure ITO that no existing trainee should be disadvantaged by these transition arrangements. Any person who considers they have been disadvantaged may appeal to the qualification developer - Infrastructure ITO (Connexis) at qualifications@connexis.org.nz, or 04 499 9144.