

The current NZQA approved Connexis Programme was developed in consultation with Industry and aligned to New Zealand Apprenticeship requirements.

Graduate Profile Outcome:	Indicative Credits	Unit Standards				Total Credits
		Number	Title	Level	Credits	
Apply skills for the operation of equipment to isolate, connect, control and monitor the electricity grid and distribution systems in compliance with industry safety standard measures or to asset owner's specifications.	20	<a href="#">19477</a>	Demonstrate knowledge of the national electricity grid	4	5	23/24 <sup>2</sup>
		<a href="#">30513</a>	Isolate and reinstate a section of electricity distribution network	4	10 <sup>1</sup>	
		<a href="#">27655</a>	Demonstrate knowledge of faults, relay systems, and components of diagrams in power system protection systems	4	4	
		<a href="#">20091</a>	Read and interpret single line diagrams in the electricity supply industry	3	3	
		<a href="#">28195</a>	Demonstrate knowledge of fault diagnosis and power restoration on electricity supply network plant and equipment	4	4	
		<a href="#">20095</a>	Respond to substation secondary systems alarms and indications in the electricity supply industry	4	4	
		Elective (Choose 1)	<a href="#">30113</a>	Demonstrate knowledge of three-phase theory in the electricity supply industry	4	5
			<a href="#">32088</a>	Demonstrate knowledge of power cable construction and preparation	3	4
Manage the electricity supply system equipment and work control.	115	<a href="#">16276</a>	Respond to electricity supply external system operations communications	4	5	113
		<a href="#">16279</a>	Monitor electricity supply power network system	4	10	
		<a href="#">16280</a>	Compile and action switching plans to maintain electricity supply power network security	4	9	

		<a href="#"><u>16281</u></a>	Maintain and update operating log for electricity supply operational purposes	3	3	
		<a href="#"><u>19479</u></a>	Use SCADA to manage the power system	5	4	
		<a href="#"><u>30107</u></a>	Handover operational plant	4	4	
		<a href="#"><u>30110</u></a>	Action and report on an operating sequence in the electricity supply industry	4	6	
		<a href="#"><u>30115</u></a>	Describe and apply the issuer's responsibilities for the management of access and test permits and assurances	4	10	
		<a href="#"><u>16277</u></a>	Diagnose faults on electricity supply power network equipment (System Operation)	5	11	
		<a href="#"><u>16282</u></a>	Respond to power system events and emergencies on the electricity supply power system	5	15	
		<a href="#"><u>16284</u></a>	Remove and return electricity supply network equipment from service for access for work (System Operation)	4	10	
		<a href="#"><u>27654</u></a>	Demonstrate knowledge of SCADA systems in the Electricity Supply power system	3	2	
		<a href="#"><u>31198</u></a>	Operate distribution network auxiliary plant and equipment	4	5	
		<a href="#"><u>17586</u></a>	Demonstrate knowledge of electrical safety in the workplace	4	3	
		<a href="#"><u>16285</u></a>	Plan for scheduled work on electricity supply power system equipment	4	10	

		<a href="#">30512</a>	Implement electricity network load management	4	6	
Ensure that health and safety requirements are met while carrying out network plant operations in the electricity supply industry.	10	<a href="#">14700</a>	Apply and remove safety measures in an electricity supply environment	3	3	11 <sup>1</sup>
		<a href="#">32176</a>	Demonstrate knowledge of electrical circuit protection for electricity supply networks	4	5	
<sup>1</sup> Three credits from US30513 are allocated to GPO3 <sup>2</sup> Depending on chosen elective for GPO 1				Total Credits		147/148 <sup>2</sup>

Following external consultation, Connexis intends to have the following revised programme submitted to NZQA for approval.

Graduate Profile Outcome:	Indicative Credits	Unit Standards				Total Credits
		Number	Title	Level	Credit	
Apply skills for the operation of equipment to isolate, connect, control and monitor the electricity grid and distribution systems in compliance with industry safety standard measures or to asset owner's specifications.	20 credits	<a href="#">18274</a>	Demonstrate knowledge of electricity supply networks	3	8	26/27 <sup>2</sup>
		<a href="#">30513</a>	Isolate and reinstate a section of electricity distribution network	4	10 <sup>1</sup>	
		<a href="#">27655</a>	Demonstrate knowledge of faults, relay systems, and components of diagrams in power system protection systems	4	4	
		<a href="#">20091</a>	Read and interpret single line diagrams in the electricity supply industry	3	3	
		Elective (Choose 1)	<a href="#">28195</a>	Demonstrate knowledge of fault diagnosis and power restoration on electricity supply network plant and equipment	4	4
			<a href="#">20095</a>	Respond to substation secondary systems alarms and indications in the electricity supply industry	4	4
			<a href="#">30113</a>	Demonstrate knowledge of three-phase theory in the electricity supply industry	4	5

Graduate Profile Outcome	Indicative Credits	Unit Standards				Total Credits
		Number	Title	Level	Credit	
Manage the electricity supply system equipment and work control.	115 credits	<a href="#">16276</a>	Respond to electricity supply external system operations communications	4	5	111 - 117
		<a href="#">16279</a>	Monitor electricity supply power network system	4	10	

		<a href="#"><u>16280</u></a>	Compile and action switching plans to maintain electricity supply power network security	4	9	
		<a href="#"><u>16281</u></a>	Maintain and update operating log for electricity supply operational purposes	3	3	
		<a href="#"><u>19479</u></a>	Use SCADA to manage the power system	5	4	
		<a href="#"><u>30107</u></a>	Handover operational plant	4	4	
		<a href="#"><u>32171</u></a>	Describe switching instructions and how to compile them, and action a switching instruction in electricity supply	4	10	
		<a href="#"><u>30115</u></a>	Describe and apply the issuer's responsibilities for the management of access and test permits and assurances	4	10	
		<a href="#"><u>16277</u></a>	Diagnose faults on electricity supply power network equipment (System Operation)	5	11	
		<a href="#"><u>16282</u></a>	Respond to power system events and emergencies on the electricity supply power system	5	15	
		<a href="#"><u>16284</u></a>	Remove and return electricity supply network equipment from service for access for work (System Operation)	4	10	
		<a href="#"><u>27654</u></a>	Demonstrate knowledge of SCADA systems in the Electricity Supply power system	3	2	
		Electives	<a href="#"><u>31198</u></a>	Operate distribution network auxiliary plant and equipment	4	5

		(Choose 18-24cr)	<a href="#">17586</a>	Demonstrate knowledge of electrical safety in the workplace	4	3	
			<a href="#">16285</a>	Plan for scheduled work on electricity supply power system equipment	4	10	
			<a href="#">30512</a>	Implement electricity network load management	4	6	
			<a href="#">12387</a>	Operate electrical switchgear in the electricity supply industry	4	10	
			<a href="#">30110</a>	Action and report on an operating sequence in the electricity supply industry	4	6	
			<a href="#">16283</a>	Remove electricity supply field network equipment from service for access to work	4	8	
Ensure that health and safety requirements are met while carrying out network plant operations in the electricity supply industry.	10 credits	<a href="#">14700</a>	Apply and remove safety measures in an electricity supply environment	3	3	11 <sup>1</sup>	
		<a href="#">32176</a>	Demonstrate knowledge of electrical circuit protection for electricity supply networks	4	5		
					Total Credits		148/155 <sup>2</sup>

<sup>1</sup>Three credits from US30513 are allocated to GPO3  
<sup>2</sup>Depending on chosen electives

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