



National Certificate in Electricity Supply (Network Operator) (Level 4)

Level	4
Credits	88

Purpose

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

It caters for trainees within this industry whose primary role is carrying out operation and management of an electricity supply network.

The qualification covers the operation of network power system equipment including:

- Removing field network equipment from service for access to work
- Coordinating power system outages
- Operating frequency injection equipment
- Implementing network asset owner's load management policies
- Responding to electricity supply external system operations communications
- Monitoring electricity supply power network systems
- Responding to routine events and minor emergencies on the power system
- Compiling and actioning switching plans to maintain network security
- Planning for scheduled work on power system equipment
- Using advanced SCADA to manage the power system.

This qualification contains unit standards that build on the knowledge and skills recognised by the National Certificate in Electricity Supply (Operator) (Level 3) [Ref: 1375] and can lead to the National Diploma in Electricity Supply (Level 5) [Ref: 0674].

This qualification contains optional standards that are not required for award of the qualification but may be required in some employment contexts.

Special Notes

Prerequisite: National Certificate in Electricity Supply (Operator) (Level 3) [Ref: 1375] or demonstrate equivalent knowledge and skills

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

Credit Range

Level 4 credits	60
Level 5 credits	28
Total	88

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

Detailed Requirements

Compulsory

The following standards are required

Engineering and Technology > Electrical Engineering > Core Electrical

ID	Title	Level	Credit
1206	Demonstrate knowledge of a.c. power and power factor	4	4

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

ID	Title	Level	Credit
16283	Remove electricity supply field network equipment from service for access to work	4	8

Engineering and Technology > Electricity Supply > Electricity Supply - Power System Management

ID	Title	Level	Credit
15568	Coordinate power system outages	5	10
15581	Operate frequency injection equipment	4	4
16275	Implement electricity supply network asset owner's load management policy	4	10

ID	Title	Level	Credit
16276	Respond to electricity supply external system operations communications	4	5
16279	Monitor electricity supply power network system	4	10
16280	Compile and action switching plans to maintain electricity supply network security	4	9
16282	Respond to routine events and minor emergencies on the electricity supply power system	5	15
16285	Plan for scheduled work on electricity supply power system equipment	4	10
19480	Use advanced SCADA functions to manage the power system	5	3

Optional standards

The following standards are optional

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

ID	Title	Level	Credit
10526	Operate ground and structure mounted electrical equipment associated with electric lines up to 66kV	3	4

Engineering and Technology > Electricity Supply > Electricity Supply - Power System Management

ID	Title	Level	Credit
16277	Evaluate faults on electricity supply network equipment (System Operation)	5	11
16278	Evaluate faults on electricity supply network plant and equipment	4	9

Transition Arrangements

Version 3

This qualification was reviewed and issued as version 3 in conjunction with a review of the overall Operator pathway, as a result of which some standards in the previous version of this qualification were moved to National Certificate in Electricity Supply (Operator) (Level 3) [Ref: 1375] which better reflects the level at which trainees will utilise these skills.

Changes to structure and content

- The credit requirements have been decreased from 140 to 88.
- Standards 12390, 14701, 16281, 16284, 19479, and 19481 have been moved to the National Certificate in Electricity Supply (Operator) (Level 3) [Ref: 1375].
- Standards 16277 and 16278 have been made optional.
- Standard 10526 has been added as an optional standard.

- The prerequisite qualification has been changed from the National Certificate in Electricity Supply (Level 2) [Ref: 0868] to the National Certificate in Electricity Supply (Operator) (Level 3) [Ref: 1375].

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

Existing candidates will not be able to transition to the new version of this qualification, and while it is not anticipated that these candidates will be disadvantaged by this ruling, 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.

Programmes leading to the award of the new version will be available for implementation following registration.

Previous versions of the qualification

Version 2 was issued in order to include standards fundamental for those working in the electricity supply industry.

Changes to structure and content included credit requirements were increased from 100 to 140; removal of the elective 1 and elective 2 requirements; standards 1983 and 1702 were removed from the qualification; and standards 12390, 14701, 16275, 16276, 16277, 16279, 16282, 16284, 19479, 19480 and 19481 were added to the compulsory.

NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	July 2001	December 2009
Review	2	May 2006	December 2011
Review	3	April 2008	N/A

Standard Setting Body

Electricity Supply Industry Training Organisation
PO Box 1245
HAMILTON

Telephone 07 834 3038
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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
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Other standard setting bodies whose standards are included in the qualification

ElectroTechnology Industry Training Organisation

Certification

The certificate will display the logos of NZQA, the provider and 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	031313	Engineering and Related Technologies > Electrical and Electronic Engineering and Technology > Electrical Fitting, Electrical Mechanics

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.