

National Certificate in Electronic Security (Installer) (Level 3)

Level 3

Credits 132

This qualification is **expiring**. The last date to meet the requirements is 31 December 2011.

Purpose

This is the basic qualification for people wishing to pursue a career in the electronic security industry. It has been specifically designed for installers of electronic security systems, such as intruder alarms, closed circuit television, access controls, and intercom systems.

Typically, this qualification may be gained during the course of a two to three year traineeship, incorporating learning in the workplace and off-job. The trainee completes the prerequisite National Certificate in Electrical Engineering (Level 2) [Ref: 0174], which is the common introductory qualification for a variety of electrotechnology occupations, and then the National Certificate in Electronic Security (Installer) (Level 3) [Ref: 1102]. Some training providers may integrate learning for the two certificates into a common programme.

This qualification satisfies the requirements for registration and licensing as an *Electrician limited to Electronic Security Installer* by the Electrical Workers Registration Board (EWRB). This registration is a limited electrical registration, which covers the safe connection of security systems equipment to existing 230 volt subcircuits in domestic installations. See Special Notes for further details.

The compulsory section covers:

- regulations and standards applicable to electronic security
- electronic security sub-systems and terminology
- electronic security installation requirements and procedures
- connection, testing, and programming of intruder alarm systems
- cable support systems and cables
- practical installation of intruder alarm systems
- report writing
- customer service skills
- knowledge and practical skills relating to the safe connection of alarm panels to existing electrical subcircuits in domestic installations.

The elective section covers practical installation of access control equipment, closed circuit television (CCTV), and security intercom equipment.

This qualification is also of relevance to qualified electricians intending to work in the security installations field. Qualified and/or Registered Electricians may apply to the ElectroTechnology Industry Training Organisation for Recognition of Prior Learning.

Holders of this certificate may progress to the National Certificate in Electronic Security (Level 4) [Ref: 0788], which is for technicians; and recognises the skills required for designing, installing, commissioning, and maintaining more complex security systems, and supervising within the electronic security industry.

Replacement Information

This qualification has been replaced by the National Certificate in Electronic Security (Systems Installation) (Level 3) [Ref: 1632].

Version 1 of this qualification replaced the National Certificate in Electronic Security (Level 3) [Ref: 0414].

Special Notes

- 1 Prerequisite: National Certificate in Electrical Engineering (Level 2) [Ref: 0174], or demonstration of equivalent knowledge and skills.
- 2 Candidates who have obtained this National Certificate may apply to the EWRB for registration and licensing as an *Electrician limited to Electronic Security Installer*. This registration is a limited electrical registration, which specifically covers the safe connection of cabling and security control panels to existing 230 volt subcircuits in domestic installations. It does not cover work at switchboards other than circuit isolation or fuse replacement.
- 3 The replaced National Certificate in Electronic Security (Level 3) [Ref: 0414] differed from this certificate in that it did not lead to the registration as an *Electrician limited to Electronic Security Installer*.
- 4 Assessment for standard 20592 in this qualification is by written examination conducted by the Electrical Workers Registration Board (EWRB). Registered Electricians, Registered Electrical Inspectors, or Registered Electrical Engineers holding an EWRB Qualified Engineer Identification Card can use existing credits for standards 1702 and 21766 for an exemption for standard 20592.

Credit Range

	Compulsory	Elective
Level 2 credits	13	-
Level 3 credits	93	16
Level 4 credits	10	-
Minimum totals	116	16

Requirements for Award of Qualification

Award of NZQF National 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 on the New Zealand Qualifications Authority (NZQA) website: <http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/>.

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
- Elective – A minimum of 1 standard as specified

Detailed Requirements

Compulsory

The following standards are required

Engineering and Technology > Electrical Engineering > Core Electrical

ID	Title	Level	Credit
15856	Demonstrate knowledge of the New Zealand electricity supply system	3	2
15861	Demonstrate knowledge of direct current (d.c.) power supplies	3	3
15864	Demonstrate knowledge of semiconductor power devices	4	4

Engineering and Technology > Electrical Engineering > Electrical Appliance Servicing

ID	Title	Level	Credit
16411	Fault-find, repair, and re-commission fixed-wired electrical appliances	3	4

Engineering and Technology > Electrical Engineering > Electrical Installation and Maintenance

ID	Title	Level	Credit
1204	Demonstrate knowledge of earthing	3	2
1205	Demonstrate knowledge of electrical switchboards	3	3
15855	Demonstrate knowledge of circuit protection	3	3
15859	Demonstrate knowledge of electrical cables and accessories	3	7

ID	Title	Level	Credit
15871	Demonstrate knowledge of electrical installation in damp situations	4	3
16415	Install and commission extra-low voltage equipment	4	3

Engineering and Technology > Electrical Engineering > Electrical Service Technicians

ID	Title	Level	Credit
17805	Disconnect and reconnect fixed wired single phase electrical appliances	3	3

Engineering and Technology > Electronic Engineering > Electronic Security

ID	Title	Level	Credit
5880	Demonstrate knowledge of electronic security legislation, codes of practice, and standards	2	4
5881	Demonstrate knowledge of electronic security sub-systems and terms	2	6
5882	Demonstrate knowledge of electronic security installation requirements and procedures	3	6
5883	Connect, test, and programme electronic security intruder alarm systems in a controlled environment	3	6
5886	Demonstrate customer service and communication skills in the electronic security industry	3	4
5890	Install electronic security intruder alarm control equipment and peripheral devices	3	16
5893	Install electronic security cable support systems and cables	3	16
20592	Demonstrate electrical knowledge for Electronic Security Installers	3	4
20593	Demonstrate practical electrical skills for Electronic Security Installers	3	4
20594	Connect security control panels to existing domestic subcircuits	3	10

Humanities > Communication Skills > Writing

ID	Title	Level	Credit
3492	Write a short report	2	3

Elective

A minimum of 1 standard

Engineering and Technology > Electronic Engineering > Electronic Security

ID	Title	Level	Credit
5884	Install electronic security intercom equipment and peripheral devices	3	16

ID	Title	Level	Credit
5891	Install electronic security access control equipment and peripheral devices	3	16
5892	Install electronic security CCTV equipment and peripheral devices	3	16

Transition Arrangements

Version 4

Version 4 was issued to indicate that this qualification is expiring.

This qualification has been replaced by the National Certificate in Electronic Security (Systems Installation) (Level 3) [Ref: 1632].

All new and current trainees, who do not need to perform prescribed electrical work, will be enrolled in programmes leading to the new qualification.

Current trainees, who are working towards electrical installer registration requirements contained in this qualification, can either complete the requirements for this qualification before 31 December 2011, or transfer to the new qualification where they will be enrolled into a Limited Credit Programme of learning to assist them to meet the EWRB licensing requirements.

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

Previous versions of the qualification

Version 3 of the qualification was issued following a revision.

There was no change of structure or content.

For the purposes of this qualification, people who have gained credit for higher level electrical theory standards are exempt from the requirement to gain credit for the theory standard required by electronic security installers – see table below.

Credit for	Exempt from
1702, 21766	20592

This qualification contains standards that have been used as substitutes for existing standards. For the purposes of this qualification, people who have gained credit for all of the standards are exempted from the requirement to gain credit for the substituted standards – see table below.

Credit for	Exempt from
10933, 10934, 10935, 10936, 10937, 10938, 10939, 10940	1204, 1205, 15855, 15856, 15859, 15861, 15864, 15871, 16411, 16415, 17805

There are no transition implications. However, all new candidates will be enrolled in programmes leading to version 3 of the qualification to access the new exemptions.

It is not intended that anyone be disadvantaged by the above arrangements. However, anyone who feels they have been disadvantaged may appeal to the ElectroTechnology Industry Training Organisation (see details below).

Version 2 of the qualification was issued to reflect changes in titles, credits, and the subsequent change in the credit allocated to this qualification and transition from an earlier replaced qualification. Changes to structure and content: details of standards 1205, 15856, and 17805 were updated and the qualification value increased from 130 credits to 132 credits.

Version 1 of this qualification replaced the National Certificate in Electronic Security (Level 3) [Ref: 0414]. There were substantial differences between the two qualifications - these included: standards 10933-10940 were substituted with standards 1204, 1205, 15855, 15856, 15859, 15861, 15864, 15871, 16411, 16415, and 17805; standards 20592, 20593, and 20594 were added to the requirements of licensing for Electrician limited to Electronic Security Installer and the credit total was adjusted accordingly. The transition arrangements expired in December 2006.

NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	July 2004	December 2011
Revision	2	July 2007	December 2011
Revision	3	November 2008	December 2011
Review	4	March 2011	December 2011

Standard Setting Body

ElectroTechnology Industry Training Organisation
 FREEPOST 5164
 PO Box 24469
 Royal Oak
 Auckland 1345

Telephone 09 525 2590
 Email reviewcomments@etito.co.nz
 Website www.etito.co.nz

Other standard setting bodies whose standards are included in the qualification

NZQA

Certification

This certificate will display the logos of NZQA, the ElectroTechnology Industry Training Organisation and the organisation that has been granted consent to assess against standards that meet the requirements of the qualification (accredited).

Classification

This qualification is classified according to the classification system listed on the Directory of Assessment Standards (DAS) and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

DAS Classification		NZSCED	
Code	Description	Code	Description
1892	Engineering and Technology > Electronic Engineering > Electronic Security	099905	Society and Culture > Other Society and Culture > Security Services

Quality Management Systems

Providers and Industry Training Organisations must be granted consent to assess 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.