National Certificate in Electronic Security (Systems Installation) (Level 3)

Level	**3**
Credits	**117**

This qualification has been **reviewed**. The last date to meet the requirements is 31 December 2021.

Transition Arrangements

This qualification was reviewed and replaced by the New Zealand Certificate in Electronic Security (Level 4) with optional strands in Electrical Appliance Serviceperson (Endorsed) and Electrical Installer [Ref: 3818].

The last date for entry into programmes leading to the replaced qualification is 31 December 2019. The last date to meet the requirements of the replaced qualifications is 31 December 2021 when the qualifications will be discontinued.

For detailed information see Review Summaries on the NZQA website.

NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	March 2011	December 2021
Review	2	May 2018	December 2021

Standard Setting Body

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National Certificate in Electronic Security (Systems Installation) (Level 3)

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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 control, and intercom systems and those trainees who do not need to perform prescribed electrical work. This qualification is also relevant for qualified electricians intending to work in the electronic security installation field.

This qualification comprises one compulsory section that covers the main electronic security systems to ensure that technicians have well rounded skills and knowledge to meet the industry's requirements to competently install electronic security 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 qualification covers:
- Practical installation of access control systems, closed circuit television systems (CCTV), intercom systems, and intruder alarm systems.
- Electronic security legislation, codes of practice, and standards.
- Electronic security system devices.
- Electronic security installation requirements and procedures.
- Electronic security cable support systems and cables.
- Electronic security data protocols and cabling.
- External communication concepts relevant to electronic security services.

The qualification also covers some broad transferable skills and knowledge that can be used in other industries. These include report writing, customer service, and communication, as well as some electrical and electronic engineering knowledge and skills.

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 supervision within the electronic security industry.

This qualification can build on the National Certificate in Electrical Engineering (Level 2) [Ref: 0174], which contains the six standards that are recommended as pre-learning for trainees entering into study for this qualification. Please refer to Special Note 1 following.

Replacement Information

This qualification replaced the National Certificate in Electronic Security (Installer) (Level 3) [Ref: 1102].

Special Notes

1   It is recommended that trainees entering into study for this qualification first complete the following standards or demonstrate equivalent skills and knowledge:
- Standard 750, *Demonstrate knowledge of electrical test instruments and take measurements*;
- Standard 15846, *Demonstrate knowledge of capacitors and semiconductor diodes*;
- Standard 15851, *Demonstrate knowledge of electrical safety and safe working practices for electrical workers*;
- Standard 15852, *Isolate and test low-voltage electrical subcircuits*;
- Standard 25070, *Explain the properties of conductors, insulators, and semiconductors and their effect on electrical circuits*; and
- Standard 25071, *Demonstrate knowledge of electromotive force (e.m.f.) production*.

2   Although this is predominantly a technical qualification, some organisations may consider it necessary for trainees to undertake training and assessment towards standards from the National Certificate in Security (Level 2) [Ref: 0176], as part of their training to address general security industry knowledge. The National Certificate in Security (Level 2) [Ref: 0176] is not a prerequisite for this qualification.

3   Trainees wishing to perform prescribed electrical work in relation to the installation or maintenance of electronic security systems must meet the licensing requirements of the Electrical Workers Registration Board (EWRB). This could include registration as an electrical installer or as a registered practicing electrician.

4   Trainees who were working towards registration as an Electrician Limited to Domestic Security Installations, as part of the National Certificate in Electronic Security (Installer) (Level 3) [Ref: 1102] may continue to do so but should note that they will be registered as Electrical Installers as a result of the electrical licensing class changes.

5   New trainees wishing to perform prescribed electrical work in relation to electronic security systems will be enrolled into a Limited Credit Programme of learning and assessment to assist them to meet these requirements until a formal electrical installer training curriculum is in place.

Credit Range

Level 2 credits	12
Level 3 credits	105
Total	117

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

Detailed Requirements

Compulsory
The following standards are required

Engineering and Technology > Electronic Engineering > Electronic Security

ID	Title	Level	Credit
5880	Demonstrate knowledge of electronic security legislation, codes of practice, and standards	2	3
5881	Demonstrate knowledge of electronic security devices	2	6
5882	Demonstrate knowledge of electronic security installation requirements and procedures	3	6
5886	Demonstrate customer service and communication skills in the electronic security industry	3	4
5890	Install electronic security intruder alarm and control systems	3	16
5891	Install electronic security access control systems	3	16
5892	Install electronic security CCTV systems	3	16
5893	Install electronic security cable support systems and cables	3	16
26839	Demonstrate basic knowledge of electronic security data protocols and cabling	3	15
26840	Demonstrate fundamental knowledge of external communication concepts relevant to electronic security services	3	4
26841	Demonstrate knowledge of electronic security intruder, access control, CCTV, intercom systems, and equipment functions	3	12

Humanities > Communication Skills > Writing

ID	Title	Level	Credit
3492	Write a short report	2	3

Transition Arrangements

Version 1

Version 1 was issued following a review of the National Certificate in Electronic Security (Installer) (Level 3) [Ref: 1102] which this qualification replaces. The changes were due to EWRB's changes to the electrical licensing classes and the electronic security industry technology changes. Also, because industry considered that the electrical installer licensing component of the replaced qualification presented a barrier for some trainees, in particular those trainees who do not need to perform prescribed electrical work, industry decided that the licensing component would be best assessed separately for those trainees who require electrical installer registration.

This qualification also aligns with the Level 4 qualification and takes into account the latest changes in technology in the electronic security industry.

Differences in structure and content between the new qualification [Ref: 1632] and the replaced qualification [Ref: 1102]
- Descriptor in title of [Ref: 1102] (Installer) was changed to Systems Installation in [Ref: 1632].
- Credit value of [Ref: 1632] (117 credits) is lower than credit value of [Ref: 1102] (132 credits).
- [Ref: 1632] does not have an Elective section; all standards are compulsory.
- Standards 5891 and 5892 from the Elective section of [Ref: 1102] were included in the Compulsory section of [Ref: 1632].
- New standards 26839 and 26840 were included in [Ref: 1632].
- Standard 5883 in [Ref: 1102] was replaced by standard 26841 in [Ref: 1632].
- Electrical standards 1204, 1205, 5884, 15855, 15856, 15859, 15861, 15864, 15871, 16411, 16415, 17805, and 20592-20594 from [Ref: 1102] were not included in [Ref: 1632].

For detailed information see Review Summaries on the NZQA website.

This qualification contains a standard that replaced an earlier standard. For the purposes of this qualification, people who have gained credit for the expiring standard are exempt from the requirement to gain credit for the replacement standard – see table below.

Credit for	Exempt from
5883	26841

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 the replaced qualification, can either complete the requirements for [Ref: 1102] before 31 December 2011, or transfer to this qualification where they will be enrolled into a Limited Credit Programme of learning to assist them to meet the EWRB licensing requirements.

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

Other standard setting bodies whose standards are included in the qualification

NZQA

Certification

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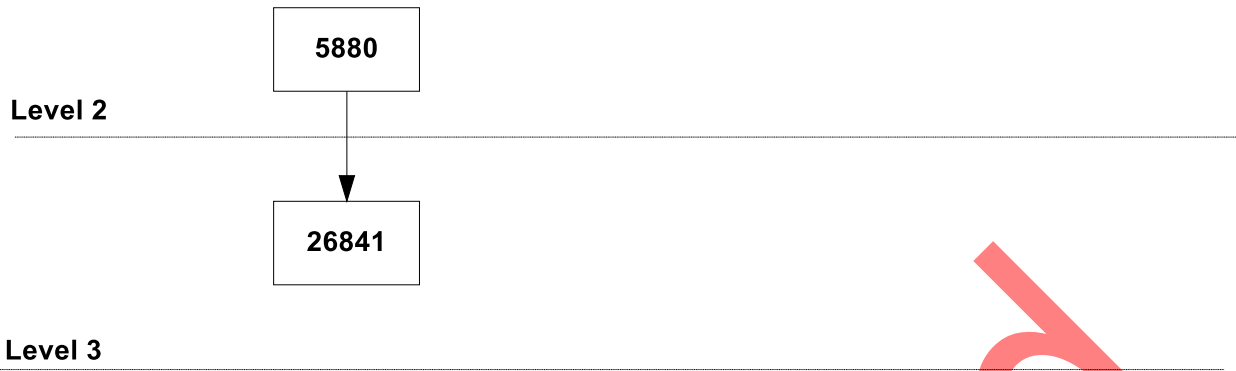
Classification

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. Organisation with consent to assess and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Consent to assess requirements and the moderation system are outlined in the associated Consent and Moderation Requirements (CMR) for each standard.

Prerequisite Diagram

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                        │   5880   │
                        └──────────┘
Level 2 ─────────────────────┼────────────────────────────────
                             │
                             ▼
                        ┌──────────┐
                        │  26841   │
                        └──────────┘

Level 3 ─────────────────────────────────────────────────────
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Reviewed