

## New Zealand Certificate in Electrotechnology (Level 3)

### Course Outline – Electronic Security

This course is for learners wanting to enter the electrotechnology industry as either an installer or a serviceperson. It is an intermediate step towards the level 4 NZC in Electronic Security.

Learners who enrol in the **Installation strand** will be able to:

- Undertake the installation, maintenance, restoration, scoping and connectivity of efficient, reliable, and secure data and communication systems and hardware.
- Maintain and repair a diverse range of extra low voltage electronic systems or equipment at a non-complex level.
- Operate as technicians at intermediate level under indirect supervision.

Learners who enrol in the **Service strand** will be able to:

- Diagnose, repair and service a diverse range of end-user appliances, and goods and equipment at a non-complex level and supervise electrical workers.
- They will also be able to undertake the EWRB examination.

### Course Structure

You are working in the industry:

**Part-Time:** 18 months

**Blended Learning:** This course is made up of both online theory learning and practicals. There are 11 modules in total. Learners will use naturally occurring evidence from the workplace (like job cards, service reports) verified by the supervisor or manager.

**Intakes:** Enrolments occur monthly from February through to November.

### Workplace Verification

Businesses who employ a learner on this course will look after their on-job practical work. Each piece of work needs to be verified by a workplace verifier. This person is someone within the business who has appropriate experience and can verify that the work being submitted is true, accurate, and performed by the learner.

For the service strand, a current EWRB practising license is also required. The primary responsibility of an electrical supervisor when supervising a trainee is to take all practicable steps to ensure that:

- the work is carried out competently
- while the work is being undertaken, appropriate safety measures are adopted
- the completed work is performed in accordance with the requirements of the Electricity Act 1992 and the Electricity (Safety) Regulations 2010 *where appropriate*



## ICE and E-tec are here to help

We are dedicated to helping each of their learners succeed. Students can join online tutorials or contact their tutor over the phone, video conference or by email for assistance.

## Qualification

Graduates of the Installation strand will be awarded the *New Zealand Certificate in Electrotechnology (Level 3)*.

Graduates of the Service strand will be awarded the *New Zealand Certificate in Electrotechnology (Level 3)* **and** be eligible to be registered and licensed as an Electrical Appliance Serviceperson (endorsed to disconnect and connect) (EAS endorsed).

## Future pathways

Once you have successfully obtained your *New Zealand Certificate in Electrotechnology (Level 3)* there are many career pathways.

- NZC Electronic Security Level 4
- NZC Electrical Engineering (Electrical and Electronic Installation and Servicing) Level 4
- NZC in Customer Premises Systems Level 4

## Prerequisite Requirements

- 16 years or above
- Employed in the Security industry in NZ
- Have a training agreement with employer
- Must hold a valid Resident Visa, Permanent Resident Visa or hold New Zealand Citizenship
- Have an electrical supervisor if undertaking the service strand

## Course Costs

Fees do apply to this course which is \$51.90 GST inclusive per week.

This course is a total of 95 credits and is not eligible for fees free.

## Course Enrolment

Enrolments are collected through ICE trading as E-tec by Lafo Siaosi Opa on [Lafos@etec.ac.nz](mailto:Lafos@etec.ac.nz) or 021 873 183.

## Enquiries

For any enquiries please contact:

Lafo Siaosi Opa  
[Lafos@etec.ac.nz](mailto:Lafos@etec.ac.nz)  
021 873 183

Or call our office on:  
0800 030 500  
[www.etec.ac.nz](http://www.etec.ac.nz)

## 2767 NZC in Electrotechnology L3 - Electrotechnology programme

### Electrotechnology Level 3 – Installation Strand

Unit Standard	Title	Level	Credit	Off Job	On Job
<b>Core Units</b>					
27911	Demonstrate knowledge of workplace safety in an electrotechnology or telecommunications environment	3	10	✓	
27912	Demonstrate knowledge of electrical principles in an electrotechnology or telecommunications environment	2	15	✓	
30642	Demonstrate knowledge of specialist equipment used in electronic repairs	3	5		✓
27910	Demonstrate and apply knowledge of stakeholder engagement in an electrotechnology or telecommunications environment	3	5	✓	
30651	Explain regulatory requirements for installing and servicing extra-low and low voltage customer premises systems	3	5	✓	
30641	Demonstrate knowledge of electromechanical engineering principles for technicians	3	10	✓	
30643	Demonstrate knowledge of the installation of electrotechnology systems on customer premises	3	10	✓	
<b>Strand Units</b>					
30647	Apply safe working procedures and practices in an electrotechnology environment and identify and control special hazards	3	5		✓
30648	Demonstrate knowledge of installation practices and procedures for customer premises systems	3	5	✓	
30649	Select, install, and commission basic extra-low voltage and low voltage customer premises systems	3	15		✓
30650	Diagnose, service, and repair basic extra-low voltage and low voltage customer premises systems	3	10		✓

## Electrotechnology Level 3 – Service Strand

Unit Standard	Title	Level	Credit	Off Job	On Job
<b>Core Units</b>					
27911	Demonstrate knowledge of workplace safety in an electrotechnology or telecommunications environment	3	10	✓	
27912	Demonstrate knowledge of electrical principles in an electrotechnology or telecommunications environment	2	15	✓	
30642	Demonstrate knowledge of specialist equipment used in electronic repairs	3	5		✓
27910	Demonstrate and apply knowledge of stakeholder engagement in an electrotechnology or telecommunications environment	3	5	✓	
30651	Explain regulatory requirements for installing and servicing extra-low and low voltage customer premises systems	3	5	✓	
30641	Demonstrate knowledge of electromechanical engineering principles for technicians	3	10	✓	
30643	Demonstrate knowledge of the installation of electrotechnology systems on customer premises	3	10	✓	
<b>Strand Units</b>					
30644	Demonstrate basic knowledge of diagnostics and fault finding for service and installation technicians	3	5	✓	
27352	Demonstrate knowledge of supervision of trainees undertaking prescribed electrical work	4	2	✓	
27350	Demonstrate knowledge of theory and legislation for registration of electrical appliance servicepersons (endorsed)	3	3	✓ EWRB Exam	
30645	Demonstrate practical application of theory and legislation for electrical appliance servicepersons (endorsed)	3	3	✓	
30646	Demonstrate knowledge of electrical theory and legislation for electrical appliance servicepersons EAS (endorsed)	3	7	✓	
22763	Service Electronic Goods	4	15		✓