

New Zealand Certificate in Electrotechnology (Level 3)

Course Outline- Electronic Security

This course is for learners wanting to enter the electronic security industry as either an installer or a serviceperson and is an intermediate step towards the level 4 Certificate 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 security, access control & surveillance systems and hardware.
- Operate as technicians at intermediate level under indirect supervision.

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

- Diagnose, repair and service security systems and equipment at a non-complex level and supervise electrical workers.
- They will also be able to undertake the EWRB EASQ examination.

Course Structure

This course is flexible in delivery dependent on your employment status.

If you are already 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 (i.e. job cards, service report) verified by the supervisor or manager

Intakes: Enrolments occur on monthly basis from February through to November

If you are not yet working in the industry:

Full-time: 6 months (attendance at E-tec campus on Tuesdays & Thursdays from 8.30am - 4pm)

Blended Learning: This course is made up of both online theory learning and practicals, there are 11 modules in total. Learners will gain both knowledge and practice during their time at the E-tec campus.

Intakes: The first enrolment intake is in February, with the second in July

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 a 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*

E-tec is here to help

E-tec is dedicated to helping each of their learners succeed. Students can join online tutorial on Tuesdays and Thursdays (6pm to 8pm). Students can also contact their tutor over the phone 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 you can take.

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

You can also upskill in one of the many training options E-tec has to offer. Visit our website for information on these courses www.etc.ac.nz

Prerequisite Requirements

Applicants must hold a NZ residency, permanent residency, or citizenship.

They must also hold NCEA Level 1:

- 10 credits in Mathematics; and
- 10 credits in English; and
- 14 credits in General Science or Physics
- Or equivalent Outcome of Course or experience.

English Language entry requirement: Applicants must have sufficient competence in the English language to undertake this programme which is taught and assessed in English. This will be demonstrated by meeting the current NZQA requirements.

For the minimum English language requirements refer to the following website:

<https://www.nzqa.govt.nz/about-us/our-role/legislation/nzqa-rules/nzqf-related-rules/the-table/>

Students aged 20+ years who do not hold the minimum entry requirements for a programme will be eligible to enrol as a student where their previous educational, work or life experience indicate that they have a reasonable likelihood of success. Students under the age of 20 who do not hold the required minimum entry requirements for a programme may also be eligible to enrol in exceptional circumstances. Such decisions will be made by the Director/Head of School

Course Costs

This course qualifies for the Government's Fees Free www.feesfree.govt.nz policy until December 2022. You must be a New Zealand resident to qualify for Fees Free.

This NZC in Electrotechnology L3 does not qualify for the Government funded Apprenticeship Boost.

Recognition of Prior Learning

If you wish to apply for recognition of prior learning, please apply directly to MIT prior enrolling into the qualification: <https://www.manukau.ac.nz/study/recognition-of-prior-learning>

MIT charges for this service and it may take a few weeks for your application to be processed.

Course Enrolment

This course is delivered in partnership between E-tec and the Manukau Institute of Technology (MIT). Enrolments are collected through E-tec by Carine Vaccari on carinev@etec.ac.nz or 022 568 6671 and will be confirmed by MIT.

Enquiries

For any enquiries please contact:

Carine Vaccari
carinev@etec.ac.nz
022 568 6671

Or call our office on:
0800 030 500
www.etec.ac.nz

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Core		Off-Job	On-Job
541.316	Workplace safety in an electrotechnology or telecommunications environment	off	
541.317	Electrical principles in an electrotechnology or telecommunications environment	off	
531.302	Principles and applications of specialist equipment used in electronic repairs	off	
541.323	Regulations and compliance in the Electrotechnology industry (Electronic Security)	off	
541.301	Stakeholder engagement in an electrotechnology or telecommunications environment	off	
531.324	Electronic Security systems and equipment	off	
531.325	Electronic security cables and cable supports systems		on

Installation Strand		Off-Job	On-Job
531.305	Workplace control of special hazards impacting on domestic and re-locatable installations		on
531.328	Electronic security and surveillance devices	off	
531.329	Installation principles and practices – electronic security		on
531.330	Installation – specialist option (choice of access, surveillance or Intercom)		on
531.309	Diagnose and repair systems, equipment and services		on

Service Strand		Off-Job	On-Job
521.402	Demonstrate knowledge of supervision of trainees undertaking prescribed electrical work	off	
531.307	Diagnostics and fault finding for service and installation technicians		on
521.309	Theory and legislation for registration of electrical appliance servicepersons (endorsed)	off	
521.310	Electrical Registration for Electrical Technicians and Service Persons	EWRB Exam	