

## New Zealand Certificate in Electrotechnology (Level 3)

### Course Outline

This course is for persons entering the electrotechnology industry as either an installer or a serviceperson and is an intermediate step to the Level 4 Customer Premises Systems (*with strands in: Structured Cabling, Control and Automation, Signal Reception and Distribution Systems or System Installation for Relocatable and/or Mobile Locations*).

Upon graduation the learners will be able to install and maintain radio & data networks and systems or services and repair a range of user equipment at a non-complex level, both into fixed and mobile installations.

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.
- 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 equipment at a non-complex level and supervise electrical workers.
- They will also be able to undertake the EWRB examination to allow them to service mains powered equipment.

### How is the course delivered?

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

Currently employed	Currently not employed
<b>Theory:</b> 11 online modules	<b>Theory:</b> 11 online modules
<b>On-job:</b> learner will use naturally occurring evidence from the workplace (i.e. job cards, service report) verified by the supervisor or manager.	<b>On-job:</b> Block courses held at Shift E-tec Learning Centre in East Tamaki, Auckland
Part-time learning will approximately take 12 to 18 months	The full programme will approximately take 9 months
Full-time learning will approximately take 9 months	

*\*You have up to 2 years to complete the program*

Learners completing the Service strand may complete their Electrical Workers Registration Board (EWRB) exam at the end of their qualification. This exam can be completed at any Aspeq Examination Center.

## Workplace Verification

Businesses who employ a learner on this course may choose to 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*

## Shift E-tec is here to help

Shift E-tec is dedicated to helping each of their learners succeed. Every Shift E-tec student can access the help of a tutor on Wednesdays from 1pm to 6pm in our East Tamaki Centre. 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).

## Costs

The course costs \$3752. Note prices are inclusive of GST and are subject to change without notice.

This course qualifies for the Government's Fees Free policy or the student loan scheme. To find out if you qualify visit [www.feesfree.govt.nz](http://www.feesfree.govt.nz)

## Future pathways

Once you have successfully obtained your *New Zealand Certificate in Electrotechnology (Level 3)* there are many career pathways you can take through the Skills Organisation (ITO).

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

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

[www.etec.ac.nz](http://www.etec.ac.nz)

## Enrolment

This course is delivered in partnership between Shift E-tec and the Manukau Institute of Technology (MIT). Enrolments are collected through Shift E-tec at [admin@shift.org.nz](mailto:admin@shift.org.nz) or 09 573 1964 and will be confirmed by MIT.

## Enquiries

For any enquiries please contact:

Carine Vaccari  
[carinev@shift.org.nz](mailto:carinev@shift.org.nz)  
022 568 6671

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

		Level	Credits	Off-Job	On-Job
Outcome 1	Demonstrate knowledge of workplace safety in an electrotechnology or telecommunications environment	3	10	off	
Outcome 2	Explain regulatory requirements for electrotechnology installation and servicing practices and procedures	3	5	off	
Outcome 3	Demonstrate knowledge of electrical principles in an electrotechnology or telecommunications environment	2	15	off	
	Demonstrate knowledge of electromechanical engineering principles for technicians	3	10	off	
	Demonstrate knowledge of the principles and applications of specialist equipment used in electronic repairs	3	5		on
	Demonstrate knowledge of systems installations on customer premise	3	10	off	
Outcome 4	Demonstrate and apply knowledge of stakeholder engagement in an electrotechnology or telecommunications environment	3	5	off	
<b>Installation Strand</b>					
Outcome 5	Apply safe working procedures and practices in an electrotechnology environment and identify and control special hazards	3	5		on
Outcome 6 & 7	Demonstrate knowledge of installation practices and procedures for customer premises systems	3	5	off	
	Select, install, and commission extra low voltage and low voltage customer premises systems	3	15		on
Outcome 8	Diagnose, service, and repair extra low voltage and low voltage customer premises systems	3	10		on
<b>Service Strand</b>					
Outcome 9	Service electrical or electronic goods to gain electrical registration for electrical technicians and service person	4	15		on
Outcome 10	Demonstrate basic knowledge of diagnostics and fault finding for service and installation technicians	3	5	off	
Outcome 11	Demonstrate knowledge of theory and legislation for registration of electrical appliance servicepersons (endorsed)	3	3	EWRB Exam	
	Demonstrate knowledge of supervision of trainees undertaking prescribed electrical work	4	2	off	
	Demonstrate practical application of theory and legislation for electrical appliance servicepersons (endorsed)	3	3	off	
	Demonstrate knowledge of electrical theory and legislation for electrical appliance servicepersons EAS (endorsed)	3	7	off	