

For NZ Citizens and  
Permanent Residents

**FEES  
FREE**

# NZ Certificate in Electrical Engineering [Level 3]

## Theory

Make the most of your talent for problem solving and gain essential electrical engineering skills for a future career in the electrical industry. This is your first step towards landing an apprenticeship and becoming a fully qualified electrician.

EIT's Trades and Technology training facilities will provide you with a learning environment where you'll work in modern workshops modelled on real-world situations. These purpose-built facilities will give you access to a broad range of equipment to hone your skills as you prepare for your next step forward.

Upon completion, you'll be able to continue your training as part of a three to four year apprenticeship scheme with an employer leading to registration as an electrical trades person.

Campus	EIT Hawke's Bay
Starts	February and July
Length	One year full-time
Contact	Mikaela Walker   Phone: 06 830 1064   Email: mwalker@eit.ac.nz

EASTERN INSTITUTE OF TECHNOLOGY

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# Be an in-demand professional trades person

You will be introduced to the foundation theories of electricity: health and safety, safe working practises, legislation (electrical publications, regulations and electricity act), OHM's Law, direct current principles (conductors, insulator, semiconductors, capacitors, diodes, rectifiers), circuit design, electrical machines, alternating current principles, installation principles,

energies and technology, methods of producing voltages and electrical supply and distribution.

Come in and have a chat about your study options with the staff at our Hawke's Bay campus or, simply give us a call on 0800 22 55 348. You're most welcome to visit EIT to view our facilities at any time.

## YOUR FUTURE CAREER AND STUDY OPPORTUNITIES

**Your possible employment opportunities include:** domestic/commercial/industrial electrician, appliance servicing, switchboard manufacturing, motor rewinding, office equipment serving, security/data/CCTV/fire industry, marine electrics/electronics, supply industry – linesman/cable jointer/ electrical fitter or audio visual and lighting equipment.

**Study pathway:** This is a pre-trade course that could lead into an apprenticeship in the electrical industry. After this course you will need to attend night classes for "off job" (theory modules) and complete "on job" practical tasks at your place of work. The length of time it takes to become a qualified electrician is approximately two - three years after completing the Level 3 course.

## WHAT YOU NEED TO KNOW

### NZ Certificate in Electrical Engineering (Theory)

Level	Level 3	Credits	120 credits
Length	34 weeks full-time on-campus	Fee*	FREE**

\* This is a guide only based on the previous year. All costs quoted include GST and student services levy. Fees apply to New Zealand citizens and New Zealand permanent residents only.

\*\* Please note these programmes could affect your future 'Fees Free' entitlement. For more information go to [FeesFree.govt.nz](https://feesfree.govt.nz).

## INDUSTRY-BASED TRAINING

The course includes practical hands on wiring of houses (built by EIT Carpentry). There is also an expectation of 120 hours of work experience in an associated electrical industry. Those that obtain work experience are three to four times more likely to secure a job at the end of the course.

## 2022 KEY DATES

INTAKE ONE		INTAKE TWO	
Programme starts	Tuesday, 8 February	Programme starts	Monday, 25 July
Programme ends	Friday, 11 November	Programme ends	Thursday, 13 April 2023

  

EIT TERM HOLIDAYS		
15 April - 29 April	11 July - 22 July	3 October - 14 October

## TIMETABLE

Your study time will be made up of contact time (class times, tutorials, industry-based learning) and non-contact time (your own individual study time).

### Contact Time

On-campus classes are usually scheduled between 8.00am - 2.30pm, three days per week, 21 contact hours per week.

For a current timetable, please refer to [eit.ac.nz/students/timetable](https://eit.ac.nz/students/timetable).

### Non-contact Time

You should plan to spend 18 hours of individual study per week.

## ADDITIONAL COSTS

- ▶ \$150 approximately for work boots
- ▶ \$260 approximately for textbook

## ENTRY CRITERIA

### Standard Entry Criteria

- ▶ Meet the NCEA Level 2 requirements, or provide evidence of achievement at an equivalent level.

### Non-standard Entry Criteria

- ▶ Applicants will be required to pass a Colour Blindness Test.
- ▶ Successful completion of the alternative academic entry test; or
- ▶ Successful interview with a member of the academic staff **and** successful completion of the alternative academic entry test.

The alternative academic entry test will measure applicants' Literacy and Numeracy ability to ensure that is of a level to cope with the demands of the programme.

The interview will allow parties to exchange

information about what the programme both provides to, and requires of, its students. Included in the interview will be discussion of possible career paths for the student, motivation and physical and emotional requirements, and the applicant's abilities, background, experiences and interests. Attendance of whānau members and/or supporting associates is encouraged at all interviews.

## ENGLISH LANGUAGE ENTRY REQUIREMENT

If English is not your first language you are required to have attained an acceptable level of English language fluency. This may be demonstrated in a variety of ways, including successful study in English, completion of a New Zealand Certificate in English Language (Level 3), approved scores on IELTS tests (5.5 Academic with no band score lower than 5.5), completion of accepted international equivalents, or completion of an EIT Hawke's Bay assessment.

## LITERACY AND NUMERACY SKILLS

A Literacy and Numeracy assessment is part of the preparation for all level 1 to 3 programmes. This is a national requirement from the Tertiary Education Commission (TEC). This information gives your tutors information on what you already know to help them provide the support that you may need in your studies.

There are two assessments. The first assessment will take place within the first three weeks of the programme. The second will be a week or two before you finish the programme. This final assessment will show how you have improved with your Literacy and Numeracy skills.

There will always be a tutor to help you when doing the assessment. The most important thing to know about this assessment is that you CANNOT fail. You will merely get information on your Literacy and Numeracy skills. The result will NOT have an impact on any of your assessment marks in your course work.

## FACILITIES

EIT's Trades and Technology Training complex offers students a learning environment which gives them the opportunity to work in modern workshops modelled on real-world industry. The purpose built facilities give students access to a comprehensive range of equipment for automotive, mechanical engineering, welding, carpentry and electrical trade training.

## ASSESSMENTS

The assessment for the courses include written assignments, theory assessment/tests and practical exercises.

## THE EXPERIENCE YOU NEED & THE SUPPORT TO SUCCEED

When you study at EIT you'll get the kind of experiences that will help you gain the knowledge and skills to get ahead.

You'll also be supported by lecturers and tutors who are here for you, within a learning environment where you are treated as an individual, not just a number. They'll know your name and you'll receive one-on-one attention to make sure you get the support to succeed.

## EXPERIENCED LECTURERS

You can be confident in the quality of our teaching and your learning experience at EIT.

EIT is one of the top ITPs in New Zealand for research excellence due to the quality of our community centred research, and associated publications and level of government and external grant income. This means that your lecturers use the latest knowledge and research in their field of expertise to inform their teaching, and many are at the forefront of knowledge creation within their discipline area.

## COURSE DESCRIPTIONS

COURSE NO.	BRIEF DESCRIPTION	NO. OF CREDITS	NZQA LEVEL
EET3.01	<b>Circuit Design and Operation</b> To understand the theory and application of electrical diagrams in terms of circuit design and lighting installations.	15	3
EET3.02	<b>DC Fundamentals</b> To introduce fundamental knowledge and principles of Direct Current (DC) electrical installation practices.	15	3
EET3.03	<b>Electrical Applications</b> To understand and apply fundamental knowledge of electrical theory and practice to the installation and maintenance of electrical systems and equipment.	15	3
EET3.04	<b>Electrical Machines</b> To understand the theory and application of electrical machine protection, fault diagnosis, special power supplies and rotating machines.	15	3
EET3.05	<b>Electrical Work Practices</b> To acquire fundamental operational and theoretical knowledge of electrical work practices.	15	3
EET3.06	<b>Electrical Supply and Distribution</b> To gain understanding of the fundamentals of the NZ electricity supply system and devices used to ensure safety and protection of users and installations.	15	3
EET3.07	<b>Electricity Systems</b> To extend knowledge of electrical systems and applications of direct and alternating current.	15	3
EET3.08	<b>Installation Fundamentals</b> To introduce fundamental knowledge and principles of electrical installation practices and associated legislation and standards.	15	3

# HOW TO ENROL

There is an easy 3-step process to follow when enrolling at EIT.

## STEP 1

Check out the programmes online to see the programmes available for you to study. A copy of the course information for each programme is available online.

## STEP 2

You can now use your RealMe verified identity to apply for study at EIT. If you use your RealMe verified identity you will no longer be sent a copy of your application form to sign. You also will not need to provide us with a copy of your primary ID.

If you apply online without using RealMe then you will be sent a summary of your enrolment to check and sign. It will also include course selection forms which you need to complete and return. Your enrolment cannot progress until you have sent the summary and forms back to us.

You can also apply using a paper enrolment form. Please call us on **0800 22 55 348** and we will send you one out.

You will receive an acceptance letter from your Faculty with programme information. This will include the start date of your

study and any special information regarding your programme. Depending on your chosen programme of study, you may be invited to attend an interview before you are accepted.

## STEP 3

Arrangement for full payment of enrolment fees must be made before the start of your programme. You will receive an invoice with payment details.

**Fees-Free government scheme:** Tertiary education is fees-free for eligible domestic tertiary students. To check if you are eligible, go to [FeesFree.govt.nz](https://www.feesfree.govt.nz) and enter your National Student Number (NSN). If you are not eligible you will be responsible for paying your fees.

**Scholarships and grants:** Scholarships and grants make life easier by helping to cover your fees, other costs and living expenses while you study. You don't always need to be an academic high-flyer to qualify. You can find out more about scholarships and other options for paying your fees at [eit.ac.nz](https://www.eit.ac.nz).

**StudyLink:** If you need to pay for your own study you can choose to apply for your Student Loan and Student Allowance with StudyLink. You should do this early, even if you haven't yet been accepted on your programme. You can change your details later if anything changes. Visit [studylink.govt.nz](https://www.studylink.govt.nz) to find out more about StudyLink.

## STUDENT SERVICES LEVY

The Student Services Levy is a compulsory non-tuition fee that is charged to students enrolled at EIT. The levy is to contribute to the provision of quality student services that support learning. The funds received by EIT from the levy are ring-fenced, meaning they can only be spent on student services.

## STUDENT LOANS AND ALLOWANCES

StudyLink is a service of the Ministry of Social Development. Apply well before your programme begins (even if you haven't been accepted yet) so you'll be ready to get your payments when you need them most.

Check out what you qualify for at [studylink.govt.nz](https://www.studylink.govt.nz).



## EIT is now part of Te Pūkenga

Te Pūkenga will bring together New Zealand's Institutes of Technology, Polytechnics, and Industry Training Organisations to build a network of on job, on campus and online learning. The services we offer will not only remain, they will be strengthened by being part of the extensive Te Pūkenga network around the country. From 2023 your enrolment will transfer to Te Pūkenga and you will become part of the extensive Te Pūkenga network around the country.

