

NZ DIPLOMA IN ENGINEERING

(Electrical Engineering Strand)

Level

6

Credits 240

Duration **2 Years**

Intake
SEP / FEB / JULY

Further Study Pathway
Students can apply for
Bachelors of Engineering Technology



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Overview

Are you ready to power up your future in engineering? The New Zealand Diploma in Engineering (Electrical) offered at ICA is designed to equip students with the essential theoretical knowledge and hands-on practical skills required to excel in the dynamic field of electrical engineering, especially in power systems. This nationally developed and internationally recognised qualification focuses on real-world industry needs and is aligned with Engineering New Zealand standards.

Students will gain solid grounding in electrical principles, machinery, and sustainable energy, and will also complete an industry-focused capstone project. Real-world labs, small class sizes, and experienced tutors make this programme ideal for future electrical technicians and engineers.

Common Compulsory

- 1. DE4101 Engineering Fundamentals
- 2. DE4102 Engineering Mathematics 1
- 3. DE4103 Technical Literacy
- 4. DE4401 Electrical Principles
- 5. DE4402 Electrical and Electronic Applications
- 6. DE5401 Power Engineering
- 7. DE5402 PLC Programming 1
- 8. DE5403 Electronic Principles
- 9. DE5404 Electrical Machines
- 10. DE5408 CAD Electrical
- 11. DE6101 Engineering Management
- 12. DE6102 Engineering Project

Elective Courses (Level 6)

- 1. DE6401 Power Systems 1
- 2. DE6409 Electrical Building Services
- 3. DE6411 PLC Programming 2
- 4. DE6420 Protection Systems

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Career Opportunities

Graduates of this diploma are highly sought after in New Zealand and overseas. Career pathways may include

Power Systems Engineer
Electrical Engineer
Electrical Services Engineer
Electronics Engineer
Control Systems Engineer
Automation and Robotics Engineer
Computer or Network Engineer
Electrical Design Technician

Entry Requirements

NCEA Level 2*, and

A minimum total of 48 credits at level 2 in four subjects including at least 12 credits in mathematics (preferably achievement standards in algebra, calculus or trigonometry), or

equivalent qualifications (e.g., International Baccalaureate or Cambridge), or

equivalent credits from appropriate trades training and/or demonstrated skills and experience * including a minimum of 10 literacy credits at level 1 or higher (for those who achieved NCEA Level 2 before 2013).

Language Requirements In addition to meeting the minimum entry criteria, those applicants for whom English is a second language (including international students) must meet the IELTS overall language requirement: Overall Band Score (Academic) of 6.0 IELTS, with no individual score less than 5.5, or equivalent

Intake

SEP 25 / FEB 26 / JULY 26

2 Years

Full-time: 2 years