

CAPABILITY DEVELOPMENT TRAINING COURSES 2025/26

Professional certificate in Power Systems Design

Designed and delivered in collaboration with ElectroNet, the Professional certificate in Power Systems Design (PSD) was created for graduate engineers, paraprofessionals, and seasoned engineers to expose them to various aspects of power systems design in the Aotearoa New Zealand context.

These courses are designed to fit around full-time work, and are delivered via a mix of self-directed learning, webinars (led by industry experts), and written and scenario-based assessments.

Professional certificate structure

The Professional Certificate is made up of the following eight courses:

PSD-010	Power System Components for Electricity Supply
PSD-030	Earthing Systems for Electricity Supply
PSD-040	Protection Systems for Electricity Supply
PSD-060	High Voltage Plant for Heavy Industry

To be eligible for the Professional certificate participants will need to complete:

PSD-010 Power System Components (prerequisite)

Any one of PSD-030, PSD-040, PSD-050; and PSD-060 Power System Optimisation.

PSD-060 is designed for specific parts of the distribution supply chain (high voltage installations) and is optional only.

Once completed, participants will receive a Certificate of Completion for each module..

How you will learn

Each of the courses has been designed to take approximately 20 hours, allowing you to credit your participation to your Engineering NZ CPD hours. The format includes:

- up to 8 hours online theoretical learning
- 8 hours in case-study based workshops
- a quiz and scenario-based assessment

Who should participate

You are eligible to participate if you are:

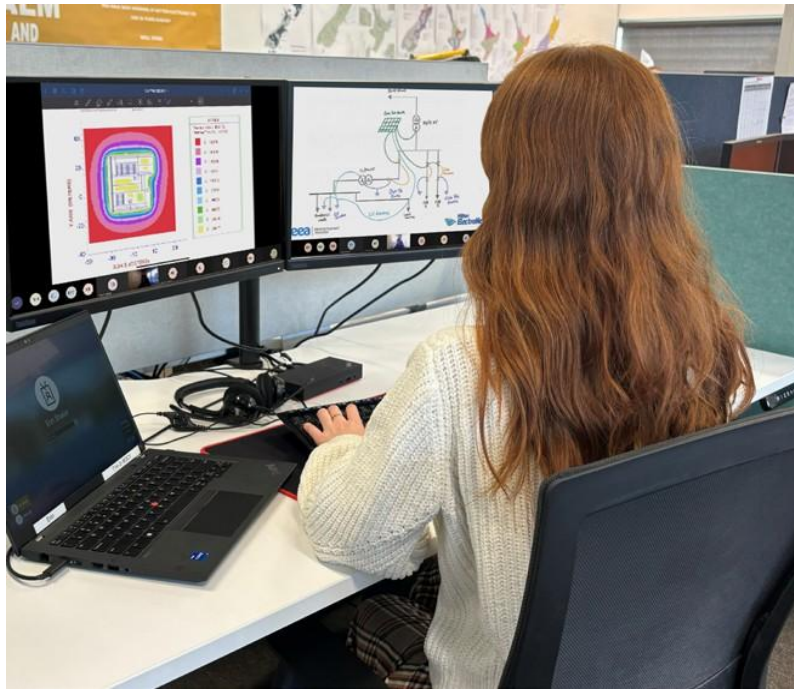
- an engineering diploma graduate, and you are employed in the NZ power industry.
- hold an engineering degree
- an experienced vocational worker (e.g., line mechanic) and you have your employer's support to enter an engineering role within your organisation.

If you aren't sure, please contact the EEA directly.

Who is involved

The EEA is proud to be partnering with ElectroNet to design, develop and deliver all of the courses in the Professional Certificate in PSD. ElectroNet provide market-leading electrical design and consulting services across Aotearoa New Zealand, and have the breadth of industry knowledge and expertise to provide you with:

- high quality learning outcomes
- engaging and interesting case-studies
- confidence that what you are learning is industry best-practice



Professional certificate in Power Systems Design – Individual Courses

Upon completion of these courses, you will be able to:

PSD-010 Power System Components for Electricity Supply

Describe the functional requirements of a power system, and how technology and demand is changing the way electricity supply assets are configured.

PSD-030 Earthing Systems for Electricity Supply

Describe the purpose and objectives of earthing, explain how design decisions are made, and resolve earthing system design problems.

PSD-040 Protection Systems for Electricity Supply

Describe the purpose and objectives of protection systems, evaluate a range of protection devices, and design a protection scheme to meet a given set of safety and performance requirements.

PSD-060 High Voltage Plant for Heavy Industry

Describe the workings of high voltage equipment used in industrial settings and evaluate and optimise the safety and efficiency of an industrial power system.

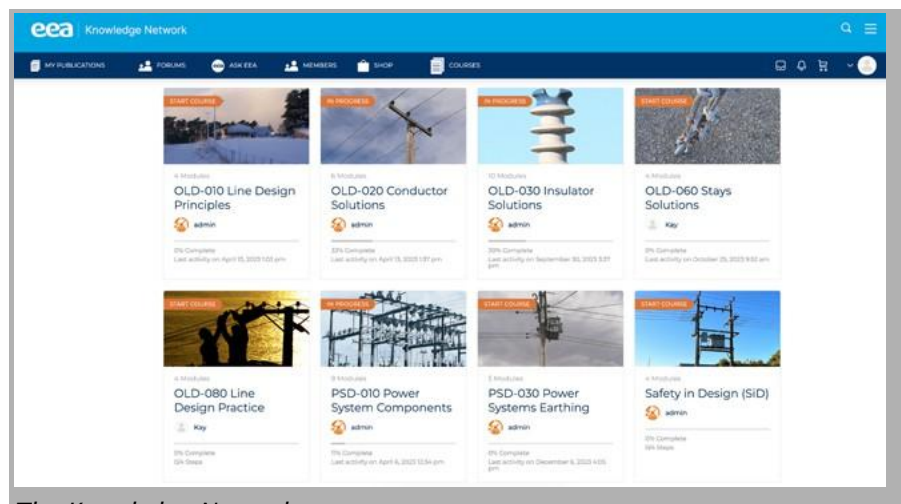
How to access the Knowledge Network and EEA courses

Course information

All course information including dates and prices and links for course registration are available on the Professional Development section of the EEA website.

Some courses or modules can be started at any time of the year, while others need a minimum number of attendees to start as a cohort together to allow for collaboration and group work. For these courses, once we reach enough registrations, we will confirm the start date with you.

You can also email us admin@eea.co.nz to let us know you are interested in a future course.



The Knowledge Network

Completing your course

Most EEA courses and modules are hosted on the EEA's Knowledge Network and after registration you'll get an email letting you know how to login to the system to begin your course. We'll let you know the next steps as you progress through your course work.

Cancellation Policy

If you cancel at least 10 business days before the course commences, you will receive a full refund, minus a non-refundable \$100 administration fee. If you have not paid for your course, you will receive an invoice for the \$100 administration fee. If you cancel within 10 business days of the course starting date, you will be charged the full fee, even if you have not yet paid. A replacement attendee is an alternative option, but please let us know prior to the course start. Non-payment does not constitute a cancellation.

Contact details

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