

OLD-010 Line Design Principles – Workshop

The EEA, working in partnership with industry experts, has developed the Micro-credential in Overhead Line Design, open to anyone wanting to become an overhead line designer. The micro-credential is based on AS/NZS 7000:2016 Overhead Line Design and HB 331:2020 Overhead Line Design Handbook.

OLD-010 Line Design Principles provides new line designers with foundational overhead line engineering knowledge and provides existing designers with the theoretical understanding to complement their industry knowledge. This course has been running for four years and has been completed by well over 100 participants.

In July 2024 Carl Rathbone of LineSmarts will be running the Line Design Principles module as an in-person workshop in Christchurch. Once numbers are confirmed, a date will be set.

Course outline

Prior to the workshop, attendees will need to review the module online, to familiarise themselves with the Overhead Line Design Standard, the Overhead Line Design Handbook, and four elements of line design:

- Mechanical concepts
- Electrical concepts
- Environmental factors
- Electrical clearances

Then, attendees join the one-day workshop. Carl will work with attendees to reinforce and practice the most important concepts taught which includes:

- The presentation of new material with a focus on understanding the most important concepts for overhead line design.
- The demonstration of spreadsheet tools which illustrate some of the course key concepts.
- Physical in-class experiments which demonstrate key engineering concepts (new material).
- The presentation of worked examples.
- There is also an opportunity for attendees to practice worked examples in class. The aim here is that after completing this course, participants will be able to independently complete basic overhead line engineering calculations.

Already completed this course and want to know more?

We recommend that participants who have previously completed the online-only version of the course consider attending the in-person workshop. It contains substantially new material and delivers more in-depth and practically applied knowledge in key areas.

About Carl Rathbone

Carl is a Chartered Professional Engineer with a civil/structural engineering background. He has spent more than 20 years developing a depth of experience in the engineering design and asset management of overhead lines.

Pricing

Standard pricing for EEA members applies **\$2,500 + GST**.

For those who have already completed the module and wish to use the additional online materials and the workshop as an opportunity to further develop line design knowledge the price is **\$1,000 + GST**.

Registration

Email your expression of interest to admin@eea.co.nz