



Electricity Engineers'
Association

**PROFESSIONAL
DEVELOPMENT**

OLD Insulator Solutions

SYLLABUS

August 2023



OLD-030 Insulator Solutions

This module forms part of a Micro-credential in Overhead Line Design which is recognised by the New Zealand Qualifications Authority. It is one of six technical modules and focuses on insulator components of an overhead line.

Overview

This module forms part of a Micro-credential in Overhead Line Design which is recognised by the New Zealand Qualifications Authority. It is one of six technical modules that focuses on individual components of an overhead line.

The overarching outcome for this module is that you will be able to design an insulator solution for an overhead distribution line, using a whole of life design approach, and in accordance with sound Safety in Design (SiD) principles.

What you will learn

Through this module, you will gain the following knowledge and skills:

1. Technical understanding of insulators
2. Technical understanding of insulator design methods
3. Practical and wholistic application of insulator design methods
4. Professional application of engineering review processes (SiD and peer-review)

How you will learn

Learning will be via a combination of reading technical notes and guides, watching videos, using interactive tools, completing the quizzes, and completing the assignments. You may also be directed into further research, where external resources are recommended reading.

How you will be assessed

The module has four assessed components:

- Theoretical understanding tested through online quizzes (20%)
- Problem-solving skills tested through a practical assignment (60%)
- Safety in Design (SiD) review using an offline form (10%)
- Professional peer review using an offline form (10%)

Who is Involved?

We have embraced the concept of Kāhui Ako (Communities of Learning) in the development and delivery of all the micro-credential modules. To this end, we have been fortunate to work with a range of individuals and organisations.

Rob Douglas of [Energyedge](#) leads the development and delivery of the learning material in the insulator course. Rob was supported by members of the Overhead Line Design Forum, and we appreciate his effort.

How to Register

To register for this course please visit <https://www.eea.co.nz/Site/professional-development/>

Costs are:

- \$1,200 + GST if undertaken as part of the Micro-Credential in Overhead Line Design
- \$1,500 + GST if undertaken independently

