

TUESDAY 18.03.2025 – THURSDAY 20.03.2025

8:00 AM - 15:30 PM

CENTRAL OSLO, NORWAY

## CLASSROOM STYLE COURSE

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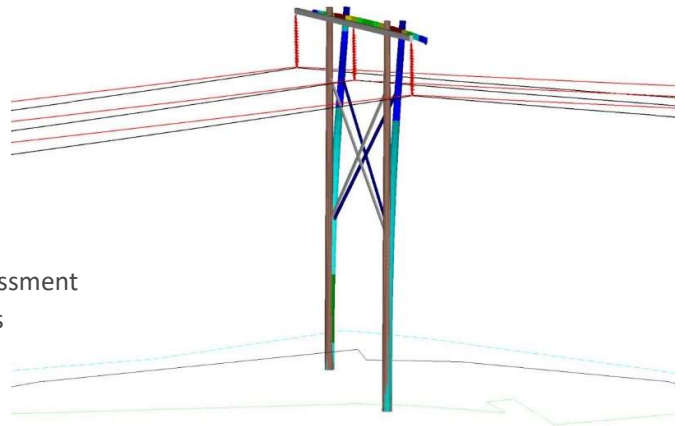
# DESIGN OF OVERHEAD POWERLINES USING PLS-CADD



**PLS-CADD is the industry standard in overhead power line design and drafting software. This course will teach how to use PLS-CADD on a transmission or distribution project from start to finish, including importing survey data, criteria development, structure design, conductor sagging and Plan & Profile drawing development and plotting.**

#### Topics Covered

- Overview of the PLS Suite of Software
- Survey Data and Terrain modeling
- Engineering
  - Design criteria
  - Creation of M1 structure models
  - Clearance calculations
  - Sag and tension calculations
  - Manual spotting and stringing
  - Automatic spotting
  - Structure calculations and strength assessment
- Concentrated loads e.g. aircraft warning spheres
- PLS-CADD drafting tools
- Creation of construction documentation



#### Who should attend?

This course is intended for all line design engineers who currently use or are planning to use PLS-CADD software. The attendees should have a basic understanding of power line design and the process and concepts involved. The course is focused on the **use of PLS-CADD** and no prior knowledge of PLS-CADD is required. The course does not cover the fundamentals of line design; however, a separate course is available.

#### Fees

The class costs € 1850 + VAT per person. (One thousand eight hundred and fifty euros + VAT)

Fees include training version of the software if needed, lunch, tea and coffee, customized manuals.

### Course Registration

A registration form is attached to this document. Seats are limited to the first 20 registrants. We must receive your registration and payment to reserve your seat. The completed registration form must be sent to [post@efla.no](mailto:post@efla.no). Once the registration form is received, an invoice will be sent to you for payment to secure your attendance. For further information, you can contact [viven@efla.no](mailto:viven@efla.no).

### Payment Information

Full payment is required prior to the class and must be received in order to reserve a seat. Seats are reserved on a first-paid first-reserved basis and are limited to 20 people. You will receive an invoice after submitting your application.

### Cancellation Policy

Confirmed registrants who do not participate or who cancel after March 2<sup>nd</sup>, 2025, will forfeit their entire registration fee. EFLA reserves the right to cancel the training session and will refund the entire class registration fee in the unlikely event this happens.

### Details

- Practical, hands-on course, conducted in English.
- The course will take the form of a lecture focusing on core concepts of PLS-CADD. Students will be given exercises to follow and complete during the day and will be assisted by the trainers when needed. The exercises are designed to help strengthen the understanding of PLS-CADD.
- The class will be held from 8:00 AM to 15:30+ PM (Norwegian Time) Monday through Wednesday.
- Venue: Central Oslo, Norway
- Each day will consist of a short recap followed by a lecture and practical exercises for the delegates to complete.

### Requirements

- A PC meeting the requirements specified on the PLS website.
- PC must be capable of connecting to the internet.
- Ability to access a Google Drive link to download example files and course material which will be distributed prior to the course.

## Software & Training Material Provided

This is a 'hands-on' class where attendees will be learning by using PLS-CADD. PLS-CADD training version software will be made available for those that do not have access to the software.

*\*Any audio or video recording of the class is strictly prohibited.*

## Instructors

### Viven Naidoo

*Mr Naidoo is an Electrical engineer with an MBA from Henley Business School and has over 24 years' experience in the design or uprating of Distribution and Transmission Lines from 22 kV up to 765 kV. He has worked on the design of transmission lines in many countries including South Africa, Canada, Namibia, Botswana, Indonesia, Norway, Mozambique, Greenland, Sri-Lanka and the DRC. Mr Naidoo is an active CIGRE member for 10 years and was previously the engineering design leader for a large transmission integration project valued at USD 480 million, which consisted of several 765 kV and 400 kV lines, totaling 2200 km. He has been involved in many line failure investigations, vibration damping studies and emergency restoration planning projects. Mr Naidoo has conducted several PLS-CADD training exercises in South Africa, Norway, Sri-Lanka, Hungary, Sweden, Norway and the Netherlands. He has been utilizing PLS suite of software for more than 25 years and has been involved in the design of more than 4000 km of overhead lines using PLS-CADD.*



## REGISTRATION FORM

### Attendee Information

First Name: \_\_\_\_\_

Surname: \_\_\_\_\_

Phone Number + dialing code: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Country \_\_\_\_\_ City \_\_\_\_\_

Postal Code: \_\_\_\_\_

### Company details for Invoicing (ignore if not applicable)

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

VAT Number: \_\_\_\_\_

Send the completed registration form to [post@efla.no](mailto:post@efla.no)