



Design of Overhead Transmission and Distribution Lines in PLS-CADD™

POWER LINE
S Y S T E M S

Learn the industry standard in overhead line design software...

16th September - 20th September 2019, Berlin

This five day course will teach attendees how to use the design programs for transmission and distribution projects produced by Power Line Systems (PLS) . It will deliver the required understanding to create efficient, optimal designs. Modules include criteria development, structure design, conductor sagging and plan and profile drawings.

Who Should Attend?

The course is intended for powerline engineers and technicians. Attendees should have a basic understanding of overhead line design concepts already. The class focuses on the use of the software and not on the fundamentals of line design.

Course information

Training cost is £1,850 + VAT per person.

Course will run over five days

Mon	11.00 - 17.00
Tue - Thu	09.00 - 17.00
Fri	09.00 - 12.00

The course is conducted in English. Places are limited to the first 20 registrants. We must receive payment and your registration form in order to confirm your place.

Location

Courtyard by Marriott Berlin City Center

Axel-Springer-Straße 55, 10117 Berlin, Germany

Attendees are responsible for all other costs incurred including accommodation and travel. Please see [Marriott website](#) for more details.

Software provided

This is a 'hands-on' class where attendees will learn by using PLS-CADD™. The latest PLS-CADD™ software will be provided for each attendee for the duration of the class. Please note, attendees are responsible for bringing suitable computer.



Instructor:

Paul Richardson

Director of Engineering at NM Group

Paul Richardson is a renowned industry expert in the field of Transmission Line Engineering and long-time proponent of the use of PLS-CADD™ in improving reliability and utilisation while minimising cost. Paul is a chartered civil engineer (BEng Hons, CEng, MICE), with previous experience that includes more than 20 years of power line engineering for National Grid Plc. Paul is course director for all our powerline engineering training.

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Registration Form

Monday 16th September - Friday 20th September in Berlin, Germany.

Each attendee must submit a completed form to register ([Terms and conditions](#) here).

Attendee Information

Name(First/Last)_____ Phone_____

Company_____ Fax_____

Position_____

Address_____

_____ Postcode_____

Country_____ E-Mail_____

Payment Information

An invoice will be sent once a completed registration form is recieved.

Full payment is required prior to the class and must be received in order to reserve a seat. Seats are re-served on a first-paid first-reserved basis and are limited to 20 people.

Form Submission

Signed and completed forms should be sent to info@nmgroup.com

Signature _____

Cancellation Policy

Confirmed registrants who do not participate or who cancel after 02nd September 2019, will forfeit their entire registration fee. NM Group reserve the right to cancel the training session and will refund the entire class registration fee in the unlikely event this happens.

More information can be found at www.nmgroup.com.



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Course Syllabus

Overview

- An overview of PLS programs and the basic functions of PLS-CADD™

Survey Data / Terrain Modelling

- Using survey data including feature codes, alignments and terrain modelling
- The use of drawings, shapefiles and imagery
- Hands on exercise using live LiDAR project

Engineering Functions in PLS CADD™, PLS Lite™ and Ultralite™

- Looking at sag tension
- Modelling spans and design criteria
- Structure and cable functions
- Thermal ratings
- Hand on exercise

Method 4 Structures - PLS Pole™

- Definition of components
- Building a structure
- Loading and analysis
- Hands on exercise using a live user project

Method 4 Structures – PLS Tower™

- Geometry and connectivity
- Adding steelwork and members
- Loading and analysis
- Hands on exercise using a live user project

New Line Optimisation

- Prohibited and additional cost zones
- Available structure list
- Running an optimisation process
- Hands on exercise

Reports, Documentation and Customisations

- Engineering reports
- Construction reports
- Sharing data from reports
- Program customisations

Plan and Profile Drawings

- Materials management
- SAPS integration
- Danger trees
- Leg and guy extension reports
- Site specific structure functions
- Hands on exercise

Course Outcomes

Attendees will have thorough theoretical and practical knowledge of PLS CADD™. Attendees will also have a working knowledge of how to create structures in both PLS Pole™ and PLS Tower™.