

5 Day Course on PLS CADD PLS Pole & PLS TOWER

Date / Venue:

23 – 27 March 2015 (Johannesburg)

6 – 10 July 2015 (Cape Town)

24 – 28 August 2015 (Durban)

9-13 November 2015 (Johannesburg)

Hosted and Conducted
by



Authorised Technical Support
and Sales agents for

POWER LINE[®]
S Y S T E M S · I N C ·

Overview

This 5 day course is aimed at teaching line designers how to use the industry standard line design programmes developed by Power Line Systems (PLS) in order to create accurate, efficient and optimal designs.

The course begins with two days of structural analysis, during which attendees are led through the steps to define and analyse both transmission **pole** and **lattice tower** structures in the structural modules PLS Pole and PLS Tower.

The final 3 days of the course are dedicated to line profiling and design using the line design programme PLS CADD. Using a worked example of a basic line profile, the course covers all steps required to utilise the software from creating survey data and structure seed files, stringing conductor, performing design checks and finally creating plan and profile sheets.

The final module covers many of the more useful and advanced features of PLS CADD are covered.

Course Curriculum

DAY 1 - PLS POLE

- Design of Steel Transmission Poles
- Defining component libraries
- Creating pole geometries
- Defining loads
- Model checking and analysis + Optimising elements

DAY 2 – PLS TOWER

- Design of Lattice transmission tower
- Defining component libraries
- Defining joints/nodes, adding members, copying and transposing sections to build complex modular structure geometries
- Defining loads
- Model checking and analysis +Optimising elements

DAY 3 – 5:

PLS CADD I

- Overview of PLS Modelling Process
- Creating and Understanding Survey Points
- Defining Weather Load Cases
- Setting up conductor swing, templating, and mechanical criteria
- Creating and editing Method 1 Structures
- Manual Templating
- Automatic Spotting
- Generating .pfl profiles
- Setting up of profile sheets, drafting & annotation

PLS CADD II

This module will enable the user to maximize the capabilities of PLS CADD.

- Use of PLS CADD / Lite and the link between PLS Pole /Tower
- Using Method 4 Structures (Finite Element Modelling)
- Overview of line optimisation process
- Optimum Spotting
- Management of preferences, backups and user defined libraries
- Advanced Display Options
- Inspect Design Check Reports
- Importation of digitised drawings
- Importation of data & data filtering
- Generating 3D .xyz profiles and TIN model functionality
- Guy and leg extension reports
- Investigating conductor swing
- Generation of 3D mpegs and Images (Virtual Line inspection)
- Generation of Stringing Charts
- Generation of Staking Tables
- Exporting & Viewing the line in Google Earth



REGISTRATION INFORMATION

Date: 23 – 27 March 2015 (Jhb)
6 – 10 July 2015 (Cape Town)
24 – 28 August 2015 (Durban)
9 – 13 November 2015 (Jhb)

Location: TAP Office Jhb, 400 16th Road,
Central Park, Block Q, Midrand
TAP Office Durban, 9/11 Imperial Park,
University Rd, Westville
TAP Office Cape Town, 163 Uys Krige Drive,
Tygerberg Office Park, Uitzicht Building,
Platteklouf

(Map will be supplied upon registration)

Registrants are responsible for their own travel and accommodation arrangements. The names of nearby hotels will be provided upon registration.

Registration materials will be available at 08:00 on the first day of the course. The programme will begin at 08:30 and end at approximately 16:30 every day.

Registration Fee Schedule:

All Delegates requires a laptop to attend the training

R 14 500 (excluding VAT)

Enrolment for each course is limited to 15 people, and advance registration is required. Registration will be accepted on a first come, first served basis. The registration fee covers the four-day course, course materials, and refreshments during all course breaks.

To register, please complete the attached form and send it with registration fees to:

Trans-Africa Projects
P.O. Box 6583
Midrand
1685
South Africa

Attn: Ms Mara Venter

Tel: +27 11 205 9430

Cell: +27 82 887 8307

Fax: +27 11 205 9434

E-mail: mara@tapprojects.co.za

Cheques to be made out to Trans-Africa Projects.

Note:

Attendance will only be confirmed once the registration form and payment has been received.

Cancellation and Withdrawal Policy

If a course is cancelled, we will contact the participants and provide a full refund. Liability is limited to the return of the course registration fee. If a registrant chooses to withdraw up to fifteen days prior to the start of the course, the fees will be refunded in full. However, if a refund is required within fifteen days of the start of a course, a R250 administration charge will be deducted. Registration may be transferred to another person.

REGISTRATION FORM PLS TRAINING COURSE

(Please provide names of all registrants)

Title: _____ First Name: _____

Surname: _____

Organisation: _____

Telephone: _____ Cell: _____

E-mail: _____

(Please provide Accounts Department Details)

Company Name: _____

Address: _____

Address: _____

Address: _____

City: _____

Postal / Zip Code: _____

Country: _____

Telephone: _____

Fax: _____

VAT Registration No: _____

Company Registration No: _____

Special Dietary Requirements (Specify):

Fee Enclosed: _____

Purchase Order No: _____

Managers Signature: _____

Managers Telephone No: _____