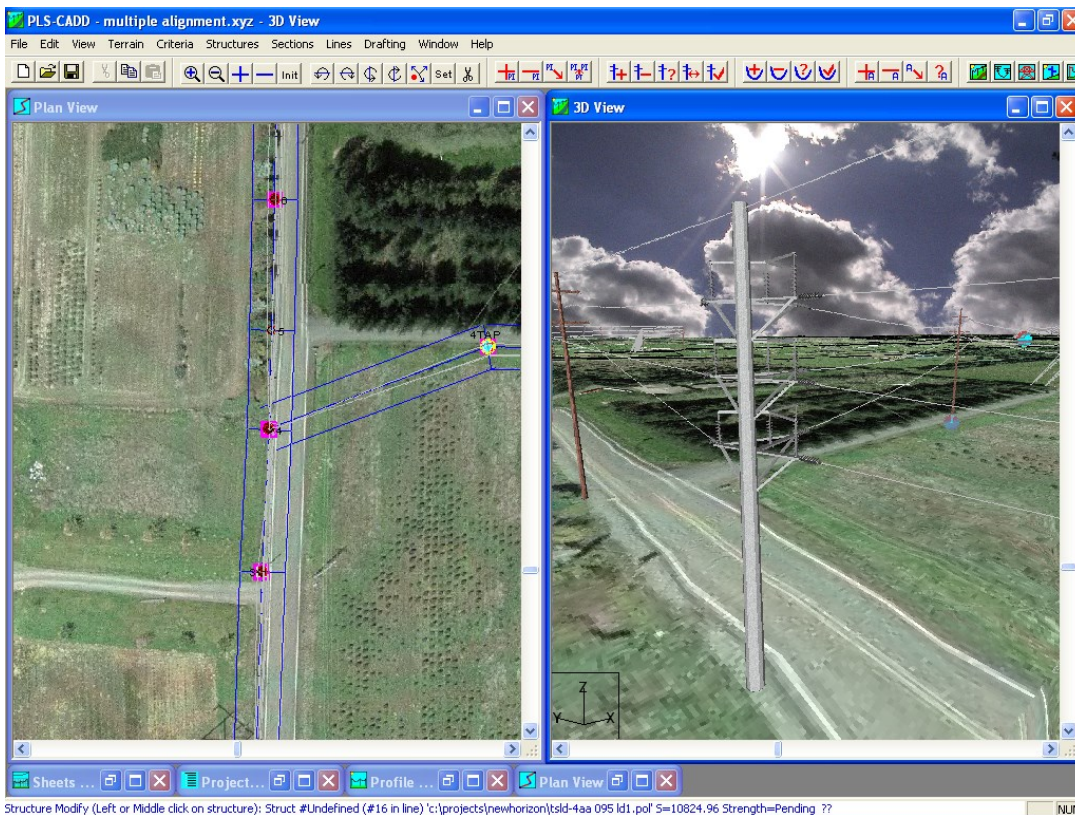


# PLS-CADD Online Course

## Design of Overhead Transmission and Distribution Lines using PLS-CADD



January 27 - 31, 2025

8:00 AM to 12:00 ~ 12:15 PM  
Monday - Friday

Held Online via Teams Meeting

**POWER LINE**<sup>®</sup>  
S Y S T E M S

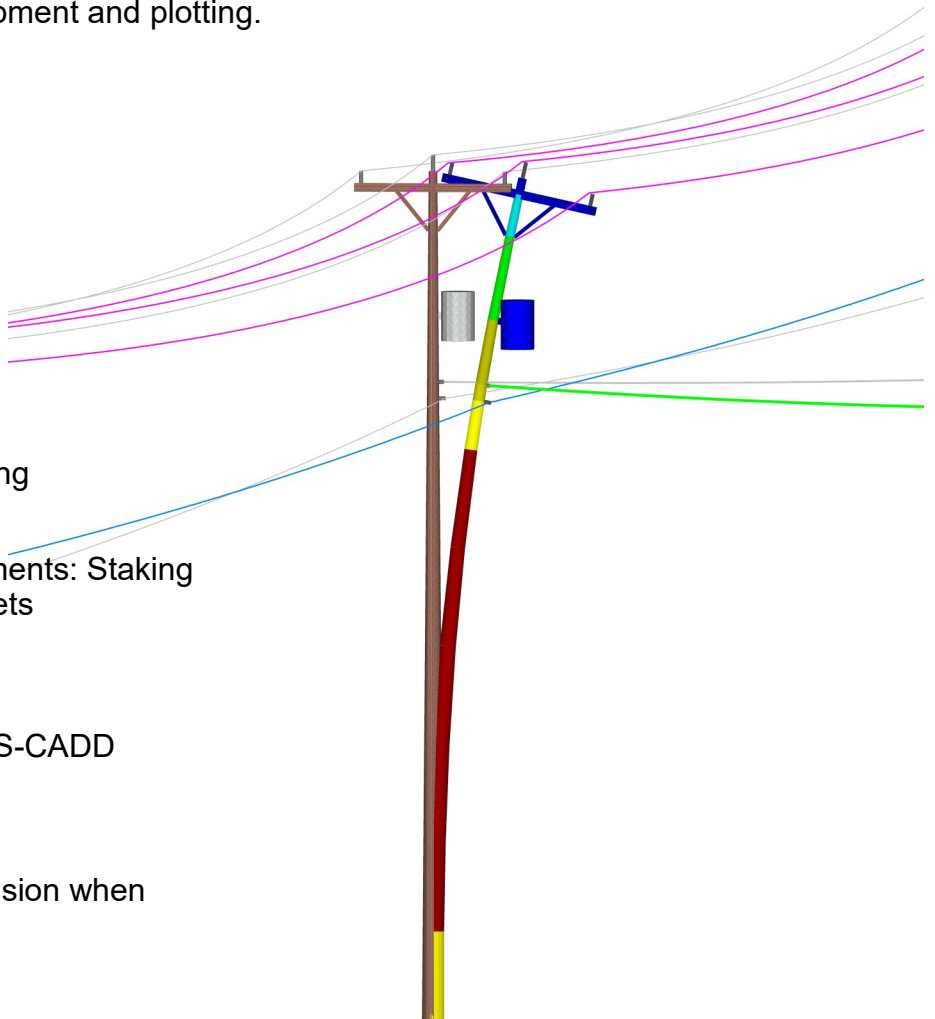
Power Line Systems  
5400 King James Way  
Suite 300  
Madison, WI 53719  
Phone: (608) 238-2171  
Fax: (608) 238-9241  
<https://www.powerlinesystems.com>

**Learn the Industry  
Standard in Overhead Line  
Design Software**

PLS-CADD is the industry standard in overhead line design and drafting software. This course will teach the attendee 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

- General Overview
- Survey data/Terrain modeling
- Engineering
  - Design criteria
  - Sag-tension calculations
  - Clearance calculations
  - Structure calculations
  - Manual spotting and stringing
  - Automatic spotting
- Generating construction documents: Staking Tables and Plan & Profile Sheets
- PLS-CADD/LITE
- PLS-POLE
- PLS-POLE integration with PLS-CADD
- Transmission Lines
- Distribution Lines
- Use of Finite Element Sag-Tension when Ruling Span is not accurate



### Who Should Attend?

This course is open to all engineers and technicians whose companies currently use PLS-CADD or are considering purchasing it. The attendee should have some basic understanding of overhead line design concepts as the class focuses on the use of the software and not on the fundamentals of line design.

### Cost

The class costs \$2000 per person.

### More Information

A registration form is on the back of this brochure. Seats are limited to the first 30 registrants. We must receive payment and your registration form in order to reserve your seat.

Please see our web site for other classes:

<https://www.powerlinesystems.com/onlinetraining>

<https://www.powerlinesystems.com/classes>

## Instructor



The course will be led by Tim Cashman, P.E., Power Line Systems along with the help of other technical support staff. He has more than 35 years of experience in overhead line design ranging from 69kV through 500kV and using the PLS software suite. Tim is a registered Professional Engineer, is an active member of ASCE and is a member of the ASCE 10 standard committee. In addition to technical support he also performs software testing, participates in the development of new software features, and conducts PLS-CADD and TOWER training courses. He has an extreme in-depth knowledge of the software's functionality and implementation.

## Details

- The class will be held from 8:00 AM to 12:00 ~ 12:15 PM (Central Standard Time Zone UTC-6) Monday through Friday via a Microsoft Teams web conference meeting.
- This online variant of our in-person introductory course is a stream lined version focusing on the core concepts of PLS-CADD and PLS-POLE. It will be a lecture and assignment style format as opposed to the more guided hands-on approach our in-person course offers, but will still give students the opportunity to learn the software through using it to complete hands-on project assignments.
- Each day the course will consist of a short QA session to recap the previous day, followed by a 4 hour lecture covering the various topics listed on the previous page as well as detailed example walkthroughs using actual project data. After the lecture on Monday through Thursday the class will be given an assignment that covers what was shown in the lecture. Students can at their own pace complete the assignment and submit their results to the technical support staff of Power Line Systems for review and comment. Should students have questions or require any assistance in completing their assignments they can submit their backup files and ask questions to our technical support staff via email or phone where they will be given priority assistance. Additionally Power Line Systems' support staff will hold a 1 hour video conference call from 4:00 PM to 5:00 PM to offer face-face assistance and answer any questions in an open forum manner. Friday will comprise solely of a lecture. Plan on training sessions running a little past 12:00 some days, and ideally reserve afternoons for working on assignments.
- Upon completion of the course students will be given a certificate of completion good for 20 professional development hours. (20 PDH's)

## Requirements

- Have a Microsoft Teams account and internet access to participate address to Power Line Systems.
- A web camera must be installed and used to access the Teams meeting.
- Ability to download the latest software and connect to our PLS-GRID server.

## Software & Training Material Provided

This is a 'Lecture & Assignment' style class where attendees will be learning by actually using PLS -CADD. The latest PLS-CADD software will be provided by Power Line Systems for each attendee for the duration of the class. If the attendee wishes to use their own software (not recommended) they must be using the latest version and it is recommended to have the following programs/modules; PLS-CADD w/ Optimum Spotting, PLS-POLE/Wood/Steel, otherwise it is recommended to use the provided training software. All students however **must** claim and use a training license.



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[info@powerlinesystems.com](mailto:info@powerlinesystems.com)

PLS-CADD Online Class Registration Form  
January 27 - 31, 2025

*Each attendee must submit a completed form to register – please print.  
Please email completed forms to [marc@powline.com](mailto:marc@powline.com) or  
call 608-238-2171 to register over the phone.*

**Attendee Information**

Name (First/Last) \_\_\_\_\_ Phone \_\_\_\_\_  
Company \_\_\_\_\_ Fax \_\_\_\_\_  
Address \_\_\_\_\_ E-Mail \_\_\_\_\_  
\_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**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 30 people.

Check No. \_\_\_\_\_

I authorize Power Line Systems to charge my \_\_MasterCard \_\_Visa for the amount of \$2000. Note that Power Line Systems can only accept MasterCard or VISA credit cards. All attendees will be supplied with the PLS-CADD & PLS-POLE software to use during the class, and a Google Drive download link for other course materials and files.

Cardholder Name \_\_\_\_\_ Signature \_\_\_\_\_  
Card No. \_\_\_\_\_ Expiration Date \_\_\_\_\_  
CVC No. \_\_\_\_\_  
Credit Card Billing Address \_\_\_\_\_  
(if different than above) \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Cancellation Policy**

Confirmed registrants who do not participate or who cancel after January 3, 2025, will forfeit their entire registration fee. Power Line Systems reserves the right to cancel the training session and will refund the entire class registration fee in the unlikely event this happens.