

LINE DESIGN & STAKING COURSE - LEVEL 3

Date:

Tuesday - Friday,
March 3 - 6, 2009

Time:

8:30 am-4:30 pm-Tues-Thur
8:00 am-12:00 pm - Fri

Location:

Colorado Rural Electric Assn.
5400 North Washington St.
Denver, Colorado

Instructor:

Power Delivery Associates

Fee:

\$1,100 per student

To Register:

Contact Liz Fiddes at
(303) 455-2700 ext. 103 or
liz@coloradorea.org

Registration Deadline:

February 2, 2009

Confirmation:

A minimum of eight people must be registered for the course to be held. A letter will be faxed to all participants confirming their registration in the course.

Cancellation Policy:

Cancellations received on or before the registration deadline will receive full refunds. Cancellations received after the deadline may be billed 25 percent of the registration fee.

COURSE DESCRIPTION

The information in this level is intended to complete the course of study in line design and staking. More attention is given to understanding how to apply the theories of line design to solve special problems. Participants will build on the foundation created in the prerequisite course of Level 2.

Topics covered in this course include:

- Understand the physical loads on the distribution system and the associated hardware
- Read DOT Prints & Cut Sheets
- Transmission Conductor Crossing Analysis
- Strength Of Pole Top Hardware
- Sag and Stringing Charts
- Un-Level Sag Calculations
- Pole Class Sizing
- NESC: Overload Factors, High Wind, Strength Reduction Factors
- Use of Advanced Tools & Equipment for Field Staking

Students who complete this final level of study will be able to design overhead distribution lines of essentially every type including those involving lake crossings, interstate and railroad crossings, transmission joint-use or crossings and multiple circuit structures.

SUPPLIES: Students are required to bring the following materials to class: NESC book, engineers scale, and an engineering calculator that has trigonometric and square root functions (example: TI-30X)

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