

LINE DESIGN & STAKING COURSE

Level #3

- Date: Tuesday - Friday, January 29 - February 1, 2008
- Time: Tues - Thurs: 8:30 a.m. - 4:00 p.m., Fri: 8:30 a.m. - noon
- Registration Deadline: January 4, 2008
- Fee: \$1,100 - Participants will be billed following the course
- Location: Colorado Rural Electric Association
5400 North Washington Street, Denver, CO
- Instructor: Anita Bandela, Power Delivery Associations
Freddie Hutchens, Power Delivery Associates
Jody Wheeler, Power Delivery Associates
- Confirmation: A letter will be faxed to all participants confirming their registration in the course
- To Register: Contact Liz Fiddes at the Colorado Rural Electric Association office (303) 455-2700 ext. 103, or e-mail at liz@coloradorea.org
- Audience: This course is designed for the professional development of electric utility line design/staker/technician/engineering personnel.
- Note:
- There are three levels to this certification program. Participants will have to pass a test to be eligible to move to the next level.
 - 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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Advanced Level #3

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.