



Line Design and Staking Certification Program Level I

March 8-10, 2010 • Orlando, Florida • 9:00 a.m. - 4:00 p.m.

Workshop overview

In this Level I workshop participants will gain a strong foundation necessary to help them advance in the field of line design and staking. After completion of this course, participants are able to complete overhead and underground service conductor sizing, residential transformer sizing, short single-phase line extensions, calculate accurate guy leads for both angle and dead end situations, interpret and implement sag charts in clearance design, and evaluate the NESC.

Learn the basics of overhead and underground design and staking that is typically expected of beginning staking personnel, including:

- Liability issues
- Easement acquisition
- Work order flow
- NESC requirements
- Safety equipment
- Power system overview
- Specifications & assemblies
- Vertical clearance design
- Communication skills
- Mapping & drafting techniques
- Line equipment identification
- Guy and anchor design

Who should attend?

Engineer Technicians, Engineers, Stakers, Journeyman Lineman, Line Construction personnel, Design Engineers.

Registration Deadline: March 1, 2010

Registration Fee: (includes lunches)

\$1,300 per person for FMEA utility and associate members

\$1,400 per person for non-members

Instructor

Mike Cowart, Manager of Training, Power Delivery Associates, Inc, Clemson, South Carolina

Course materials

Students will be provided with a course guide, a trigonometric functions calculator (ex.TI-30X), protractor, an engineer's scale and a copy of the current NESC to keep.

Cancellation policy

Cancellations after March 2, 2010, will be charged 25% of the registration fee. No shows will be charged 50% of the registration fee.

Questions

Contact **Cheryl Anderson**, Director of Training and Member Services at **(850) 251-5465**.

Workshop location

Orlando Utilities Commission
Gardenia Office Building
3800 Gardenia Avenue
Orlando, FL 32839
(407) 423-9100

Hotel location

The Florida Hotel & Conference
Center
1500 Sand Lake Road
Orlando, FL 32822
Phone: (407) 859-1500
Room Rate: \$117.00
(ask for the FMEA rate)



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Meeting registration form

Please complete the following registration form and fax or e-mail it to FMEA. Duplicate and complete this form for each person attending. Registration confirmation will be by e-mail.

Name _____ Nickname for badge _____

Title _____

Organization _____

Address _____ City _____ State _____ Zip _____

Phone (____) _____ Fax (____) _____ Cell (____) _____

E-mail _____

Payment information: (includes lunches)

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\$1,400 per person for non-members

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Check enclosed for \$ _____ Please make checks payable to **FMEA**.

Charge my: Visa Mastercard AMEX in the amount of _____ Bill me (**FMEA utilities only**)

Cardholder name _____ Card number _____

Exp. date _____ Cardholder signature _____

Billing Address _____ City _____ State _____ Zip _____

CCV/CVV2 Code _____

FAX COMPLETED FORM TO FMEA AT: (850) 224-2831 or (850) 222-0358

FMEA, P.O. Box 10114, Tallahassee, FL 32302-2114
Tel: (850) 224-3314 Fax: (850) 224-2831 E-mail: fmea@publicpower.com
www.publicpower.com

For more than 60 years, the Florida Municipal Electric Association has supported and strengthened Florida's community-owned municipal utilities, their 6,000 employees, and the 3 million Floridians they serve. FMEA's Utility Training Institute offers statewide training and certification programs for Florida's municipal electric utilities, electric cooperatives and investor-owned utilities.



Orlando Utilities Commission
Gardenia Building
3800 Gardenia Avenue
Orlando, FL 33839

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The Florida Hotel & Conference Center
at the Florida Mall
1500 Sand Lake Road
Orlando, FL 32822
Phone: (407) 859-1500

For Assistance Contact:

Cheryl Anderson (850) 251-5465
FMEA Director of Training & Member Services
OUC Gardenia Building (407) 423-9018
FMEA Office (850) 224-3314



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From the North (via I-75)

- I-75 South toward Tampa
- Take exit 328 on the left for Florida’s Turnpike South toward Orlando 0.7 mi
- Merge onto Florida’s Turnpike/Ronald Reagan Turnpike/SR-91 *Toll road* 48.3 mi
- Take exit 259 to merge onto I-4 East toward Downtown/Orlando *Partial toll road* 3.1 mi
- Take exit 79 for John Young Pkwy/SR-423 0.3 mi
- Turn right at South John Young Pkwy/SR-423 South
(signs for John Young Pkwy/SR-423 South) 0.3 mi
- Turn right at 39th St. 0.3 mi
- 39th St. turns right and becomes Gardenia Ave. 167 ft

From the North (via I-95)

- I-95 South toward Daytona Beach
- Take exit 260B to merge onto I-4 West toward Orlando 53.0 mi
- Take exit 79 to merge onto South John Young Pkwy/SR-423 South 1.3 mi
- Turn right at 39th St. 0.3 mi
- 39th St. turns right and becomes Gardenia Ave. 167 ft

From the South (Miami)

- Head southeast on SW 152nd Ave/Kingman Hwy. toward Towne Centre Blvd. 0.2 mi
- Make a U-turn at Towne Centre Blvd. Continue to follow SW 152nd Ave. 1.7 mi
- Turn left at SW 312th St/NE 8th St/Campbell Dr. 0.1 mi
- Turn left to merge onto Florida’s Turnpike North *Partial toll road* 257 mi
- Take exit 259 to merge onto I-4 East toward Downtown/Orlando 2.8 mi
- Take exit 79 for John Young Pkwy/SR-423 0.3 mi
- Turn right at South John Young Pkwy/SR-423 S (signs for John Young
Pkwy/SR-423South).....0.3mi
- Turn right at 39th St. 0.3 mi
- 39th St. turns right and becomes Gardenia Ave. 167 ft

From the South (via I-75)

- I-75 North via the ramp to Tampa
- Take exit 261 to merge onto I-4 East toward Orlando 70.5 mi
- Take exit 79 for John Young Pkwy/SR-423 0.3 mi
- Turn right at South John Young Pkwy/SR-423 S (signs for John Young
Pkwy/SR-423South).....0.3mi
- Turn right at 39th St. 0.3 mi
- 39th St. turns right and becomes Gardenia Ave. 167 ft