

# **IMEA 612**

## **Intermediate Construction/Maintenance Workshop**

### **Workshop Objective**

To provide workshop participants instruction on 600 amp underground distribution and overhead distribution construction and maintenance practices including switches, regulators, capacitors, and reclosers as well as bucket truck operation.

Upon successful completion, participants will be able to demonstrate the knowledge and skill needed for the installation and maintenance of 600 amp underground and three phase overhead distribution systems. Energized conditions will be simulated during segments of this workshop.

### **DAY 1**

- 9:00 Welcome, Introductions, and Workshop Safety Rules
- 9:30 Entrance examination
- 11:00 Field Exercise
  - Pole climbing
- 12:00 Lunch
- 1:00 Equipment Video “Bucket Truck Operation”
- 2:00 Field Exercise
  - Truck site set-up
  - Installing protective cover from a bucket truck
  - Installing protective cover from the pole
- 3:30 Daily Review and Discussion

### **DAY 2**

- 8:00 Three Phase Metering
  - PT’s and CT’s
- 12:00 Lunch
- 1:00 Transformer Connections
  - Single phase review
  - Three Phase connections, Y-Y and Delta
  - Taking Rotation
- 3:30 Daily Review and Discussion

### **DAY 3**

- 8:00 Protective Grounding
- 9:00 Field Exercise
  - Testing for line potential
  - Underground grounding application
  - Overhead grounding application
- 10:00 Vender Trailer visit
- 12:00 Lunch
- 1:00 Continue Transformer connections
- 3:30 Daily Review and Discussion

#### **DAY 4**

- 8:00 Hot Stick Review
- 10:00 600 Amp Terminations
  - Recloser Installation
    - 600 amp cable preparation
    - Regulator Operation
    - 600 amp T Body installation
- 12:00 Lunch
- 1:00 Continue 600 amp terminations
- 3:30 Daily Review and Discussion

#### **DAY 5**

- 8:00 Jumpers and Switches
- 9:00 Field Exercise
  - Parallel dead-end jumpers with mechanical jumpers
  - Hang air-brake switch
  - Remove mechanical jumpers
- 12:00 Lunch
- 1:00 Workshop Examination

All workshop participants shall bring the following:

- Text Books, Study Guides, and Safety Manual
- Hard hat
- Safety glasses
- Leather work gloves
- Climbing boots
- Long sleeve shirt
- Climbing equipment (body belt, safety strap and climbers)
- Rain gear
- Lineman's pliers (kleins)
- knife
- 12" crescent wrench
- Channel-lock pliers
- Flat screwdriver
- Hammer
- 6 ft. folding ruler
- URD cable preparation tools