

## 2024 - Dead End Insulator Replacement

**Event:** Simulated 4kV energized, rubber gloves required

**Drop Dead Time:** 25 minutes

### **Event Summary:**

Construction for this event will be 3 phase 1/0 AL wire dead-ended using hot shoe connector & dead-end insulators on double cross arms mounted to a 40' pole. Climbers will ascend the pole and replace all three dead-end insulators. Three dead-end insulators will be provided at the start of the event. One set of three insulators, either in the air or on the ground, will be identified with tape. This identification will be used by the event judges to confirm that "old" insulators have been changed out with "new" insulators. This is a team event requiring two climbers to perform the work on the pole.

### **Event Description:**

1. Teams will be given 5 minutes set up time for questions. Fall arrest must be properly adjusted and rubber gloves checked during this time.
2. Time starts on the judge's signal with fall arrest system attached to the pole if desired.
3. Neutral and neutral clevis must be covered before ascending above.
4. Phases that are not being worked on must be covered.
5. Insulating "link stick" must be used when replacing dead-end insulator.
6. Positive control of the hot shoe connector must be maintained from the time the insulator is unpinned from either the arm or hot shoe until both pins of the insulator are reinstalled.
  - Positive Control is defined as placing a conductor or any other potentially hazardous piece of equipment into a desired position in the work area. "Control" may be affected by means of a tool (shotgun, clothespin(s)), materials (tape) or by direct physical contact by the Lineworker. Any questions regarding "Positive Control" should be directed to the Event or Master Judge.
7. Hardware may NOT be put in mouth.
8. Pins of outside hot shoes and insulators must be re-installed with cotter pins facing toward the center phase.
9. Time will stop when both climbers have both feet on the ground.
10. All general rules apply.