



## **4kV Crossarm Change Out**

### **Chief Judges: Mark Mustain**

(Journeyman Event)

**Mean Time:** 10 minutes

**Drop Dead Time:** 15 minutes

#### **Event Summary:**

Teams will be replacing an 8-foot fiberglass crossarm and insulators. The three phase conductors #2 AAAC are considered energized at 4kV. The center phase will be mounted on a pole top pin at the top of the pole. A complete set of all necessary hardware will be available on the ground at each event pole. The new crossarm and insulators will be assembled after time starts. Competitors will replace existing crossarm with new equipment and re-secure conductors with new wrap-lock ties. All insulators must be removed from crossarm and pins must be removed from the insulators with the nut/square washers back on the stud bolts before the event is considered complete.

#### **Event Specifications:**

1. Teams will have 5 minutes to set up, and all tools must be laid out on a competitor supplied tarp in the designated work area.
2. Time starts at the judge's signal with the fall arrest system detached from the pole.
3. The new crossarm will be made up after the event starts.
4. Linemen may assist the groundman with rigging the new crossarm but will not be allowed to wear climbing tools while assisting without gaff guards on.
5. The neutral (both sides and clevis) must be covered
6. The phases must have two points of control at all times while tying and untying (both lineman with one hand each while tying and untying will be accepted)
7. The outside phase conductors can be floated as long as they are covered properly to protect from incidental contact.
8. The center phase insulator and both sides of the conductor must be covered.
9. Conductors are secured on a 15 kV poly insulator with #2 stranded preform tie. (Screwdriver may be used to remove wrap lock ties, no knives or pliers)
10. After new crossarm is installed, conductors must be re-secured with wrap-lock ties. (Screwdriver may be used to install wrap lock ties, no knives or pliers).
11. The old rubber grommet may fall to the ground; the new one must be installed.
12. Time stops when the last climber has both feet on the ground with the fall arrest still attached for adjustment verification.