

Transformer Change Out

(Journeyman event)

Mean Time: TBD 18

Drop Dead Time: TBD 25

Event Summary:

This event is simulated energized at 12 kV. Teams will replace a 15 KVA transformer weighing approximately 235 lbs. on a single phase straight-line overhead structure with #2 triplex secondary wire. The old transformer will be lowered to the ground and then pulled back up simulating a new transformer.

Events 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. Climbers must wear class II minimum rubber gloves ground to ground.**
- 4. The neutral and neutral clevis must be covered with rated cover-up before ascending above.**
- 5. Minimum approach distance must be maintained at all times.**
- 6. The primary jumper must be disconnected from the main line during this event.**
- 7. All permanent connections must be brushed.**
- 8. Secondary voltage must be checked for bad before de-energizing the existing transformer and also on the new transformer prior to hooking up the secondary leads.**
- 9. Cutout must be utilized to drop or pick-up load. A rated hot stick must be utilized to open/close cutout, the fuse must be replaced.**
- 10. The transformer must be lowered and raised using blocks (3-2 blocks minimum and line in block must be a minimum of ½ inch in diameter) and a manufactured rated transformer gin.**
- 11. Time will stop when the work is complete and the climber has both feet on the ground. The fall arrest must still be attached to the pole for inspection/verification of proper adjustment.**