

**Chief Judge:** Justin Weaver  
**Email:** jweaver@gibsonemc.com

**Journeyman Team**

**Two Phase Transformer Bank, Bad Wing Pot Change Out**

**Mean Time: 15 minutes**

**Drop Dead Time: 20 minutes**

**Event Summary:**

This event will require the competitors to change the wing pot on a two phase transformer bank. The bank will consist of a 15 kVA and a 10 kVA, 7.2, 120/240, CSP transformers. They will be mounted on a two phase dead-end pole with 6' neutral spacing and connected to the primary with hot line clamps. The bank will be mounted on aluminum standoffs. A new 10 kVA will be on the ground with the center ground strap intact.

**Event Description:**

1. All general rules apply. Judging will start when the team enters the event and continue until they exit the event. The team will be allowed a 5 minute setup/ question time. Rubber gloves can be checked during the 5 minute setup time. It is recommended that it is called to a judge's attention.
2. Time will begin on the judge's signal with the team standing next to the tarp. The linemen will be allowed to have their climbing tools on. All other tools and material must be on the tarp when the time begins. The hand-line block must be on the tarp, but the rope can be stretched across the ground.
3. The team must trip both transformers off from the ground in proper sequence (wing pot first, lighting pot last) before the linemen can ascend the pole. The neutral will need to be covered with a hood/snake and blanket. Then, they must remove both stingers with two shotgun sticks in proper sequence, making sure the wing pot stinger stays in the clear while the lighting pot stinger is being removed.
4. The transformer can be lowered and raised using any type of blocks with a rating strong enough to handle the load. The team must use a pole genie to raise and lower the transformers.
5. The ground strap on the new transformer must be disconnected from the bushing and folded over before re-energizing the bank. This can be done by any team member at any time during the timed portion of the event.
6. The transformers will then be put back online in proper sequence (lighting pot first, wing pot last), before the linemen can remove the cover up and descend the pole.

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7. The transformers will be tripped on in proper sequence (lighting pot first, wing pot last) from the ground, then voltage will be checked at the meter base. A minimum of Class 00 rubber gloves. The correct voltage must be called out when the meter base lugs are being touched. 120,120,208/240,240,240
8. All tools and material must be on the tarp when the time stops. The linemen will be allowed to keep their climbing tools on.
9. Time will stop when the team says "time".
10. The ground strap should be connected back to the center bushing before the team leaves the event.

\*Rotation will not have to be checked. The transformer is bad, so they will not be able to get proper rotation before it is changed out.



