

Apprentice Event - Equipotential Grounding

Mean Time: 9 Minutes

Drop Dead Time: 16 Minutes

The apprentice will be required to ground a three phase structure. This is a simulated de-energized 12 KV event. Apprentice will be required to actually test and ground the structure following the 1st Edition Santee Cooper Safety Manual rules for equipotential grounding.

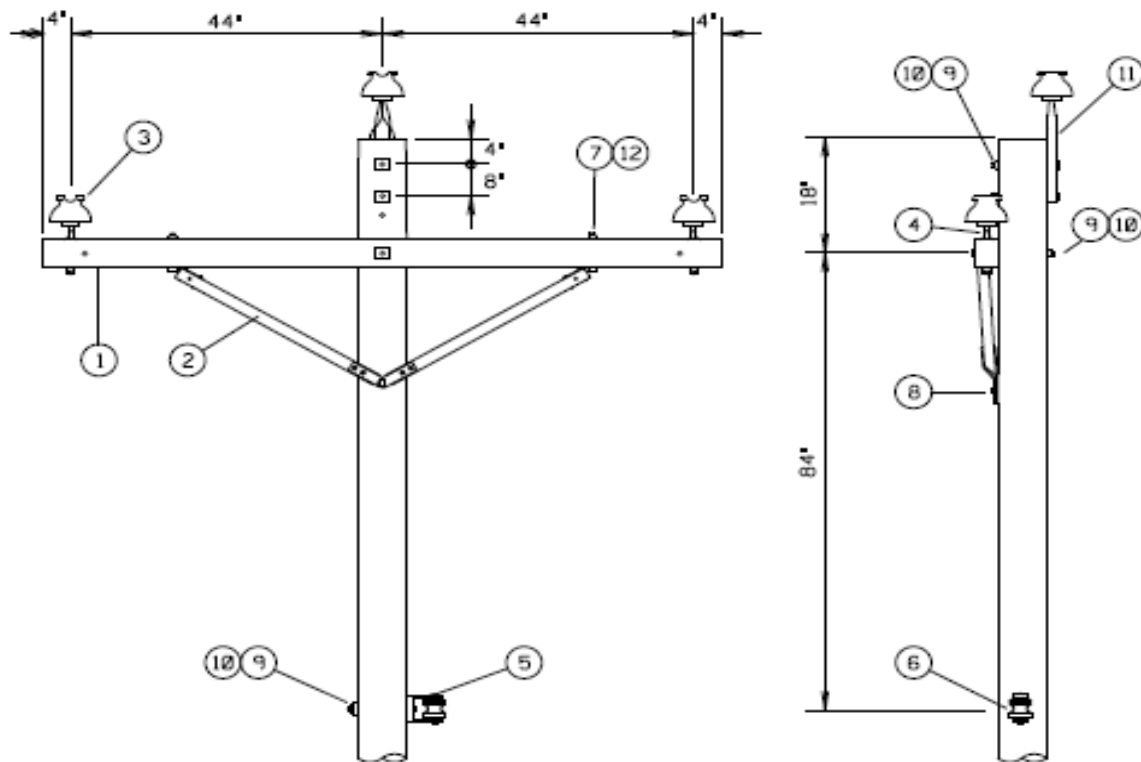
1. The apprentice will be allowed 5 minutes of setup time. The apprentice may direct questions to the judge at this time.
2. No cover is required since the structure will be effectively grounded.
3. A grounding bracket and shotgun stick with a universal adapter and tester will be hanging on the pole.
4. A handline, grounds and grunt bags will also be provided and must be used.
5. Time starts at Judges' signal.
6. The apprentice must indicate to the judge that all phases have been tested and are deenergized.
7. The apprentice must indicate to the judge that all phases have been grounded before grounds can be removed.
8. Time stop with climbers has both feet on the ground.
9. Judging will continue until all material is packed up and the event site is restored to the original condition.
10. All general rodeo rules apply.

OVERHEAD DISTRIBUTION STANDARDS

DRAWING: TC-2

PAGE: 1B-5

DATE: 1-29-14


NOTES:

- A. GROUNDING DETAILS CAN BE FOUND IN THE GROUNDING SECTION OF THIS MANUAL.
 B. IN COASTAL AREAS USE INSULATOR #022-220125

| ITEM | QTY. | DESCRIPTION | ITEM ID NO. | ITEM | QTY. | DESCRIPTION | ITEM ID NO. | | |
|------|------|--|-------------|--|--|--------------------------------------|-------------|----------|------|
| 1 | 1 | CROSSARM, 4" X 5" X 8" | 562-203119 | 9 | 4 | BOLT, MCH. $\frac{5}{8}$ " X REQ'D | --- | | |
| 2 | 2 | BRACE, WOOD CA 60" | 563-209104 | 10 | 5 | WASHER 2" SQ. $\frac{1}{16}$ " HOLE | 070-181964 | | |
| 3 | 3 | INSULATOR, PIN TYPE | 022-220134 | 11 | 1 | PIN, STEEL POLE TOP | 072-185252 | | |
| 4 | 2 | PIN, STEEL INS. $\frac{5}{8}$ " X $6\frac{1}{2}$ " | 072-185224 | 12 | 3 | WASHER, 2" SQ. $\frac{3}{16}$ " HOLE | 070-181961 | | |
| 5 | 1 | CLEVIS, SEC. | 071-229174 | | | | | | |
| 6 | 1 | INSULATOR, SEC. SPOOL | 023-225102 | | | | | | |
| 7 | 2 | BOLT, MCH. $\frac{1}{2}$ " X 7" | 070-181436 | | | | | | |
| 8 | 1 | SCREW, LAG $\frac{1}{2}$ " X $4\frac{1}{2}$ " | 070-181865 | GROUNDING MATERIAL - SEE GROUNDING SECTION | | | | | |
| 10 | 1-14 | CORRECT LAG SCREW | TLA | TLA | SINGLE PRIMARY SUPPORT CROSSARM CONSTRUCTION TRIANGULAR SPACING THREE PHASE 7.2 / 12.47kV | | | | |
| 09 | 1-10 | ADD ITEM NUMBERS | TLA | TLA | | | | | |
| 08 | 7-03 | POLY INSULATOR CHG | KT | JEC | | | | SER | |
| 07 | 2-98 | CORRECTION | JEC | JEC | | | | CVS | |
| REV | DATE | DESCRIPTION | BY | D.ENG | D.SUP | D.ENG kb | BY kb/ps | APVD htl | APVD |

dist/ods/tc-2.dgn

Personal Protective Grounding

Eye Nut will be here

Grounding Bar will be positioned here.

Grounding Bar

