

Armor Rod and Tie Event **Individual**

Mean Time = 8 minutes ~ Dead Time = 12 minutes

Event Description: This event is designed to allow the Lineman to demonstrate knowledge and skill of properly installing an armor rod and tying in a single-phase line.

Basic Outline:

1. This is a leather glove event.
2. The lineman has a maximum 5-minute set-up time.
3. Poles must be sounded with a hammer prior to climbing.
4. The lineman will select the Preformed Line Products armor rod and tie wire that they wish to use. Once selected and taken to their event pole area, they cannot exchange it for another.
5. Neither the armor rod nor the tie wire may be manipulated during the setup time, but the armor rod may be unsecured from the tape that is around it.
6. All tools and material will be placed inside the event area.
7. The lineman will start with climbing tools on, standing at arm's length from the pole with fall arrest detached from the pole.
8. The time starts on the judge's signal or ready, set, go.
9. It will be the competitor's job to install the armor rod on the phase of the A-1 and tie it in on the top of the insulator with a precut length of #6 aluminum tie wire using a standard Top Groove Double Tie, as in the attached picture. Tie must be made EXACTLY as shown in the attached picture!!!!
10. The primary wire size is #2 acsr, and the phase will be in a stringing block that will be hung at the top of the pole in an eyebolt that is positioned 8 inches from the top of the pole

to prevent it from falling while the competitor is climbing the pole.

11. Time will stop when the lineman signals that the job is completed by raising their arms and stating loudly that they are done. The reset judge in the bucket truck will then determine that the tie and armor rod install was done properly according to event description.
12. The nearest edge of the red paint on the armor rod must be within 1 ½” of the center of the insulator. There will be a line on the top of the insulator indicating the center. This will be measured by the reset judge in the event bucket truck.
13. Once the judge has finished the inspection and given the ok, the lineman will un-tie the conductors, remove the armor rod, and return the conductor to the stringing block.
14. The lineman will continue to be judged until they are on the ground and has exited the event area.

Possible Deductions (2pts.):

1. Infractions of any rules listed in the General Rules
2. Failure to sound poles before climbing.
3. Failing to install armor rod within the parameters set
4. Failing to make a proper tie as shown in event description.

Tool List (Provided by Competitor)

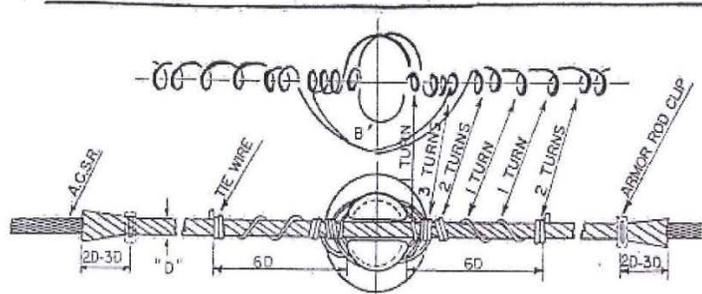
Handline
Canvas Tool Bucket
Hand Tools as Determined

Material List

Post Top Insulator – Hendrix – HPI 25J02

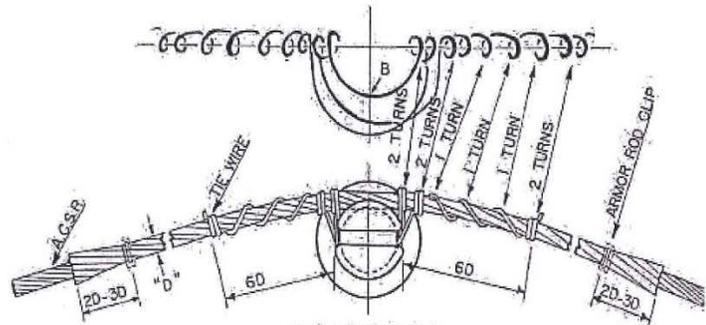
#2 Armor rod Preformed AR - 0114

#6 Aluminum soft tie cut to length



Primary Tie

TOP GROOVE DOUBLE TIE



Same as Neutral Tie

SIDE GROOVE TIE

Note:
 in making ties, start with middle of length of tie wire at position marked "B".
 To complete tie, cinch up last two turns at each end with pliers until tie wire is snug and tight.
 Use the flat face of the pliers against the armor rods.

A.C.S.R.			ARMOR RODS			TIE WIRE ALUMINUM		
Size	DIAM. INCHES	"D" DIAM. INCHES	Size	DIAM. INCHES	"D" DIAM. INCHES	Size	DIAM. INCHES	LENGTH FEET
4/0	0.563	0.939	4	0.395	0.744	4	0.395	8' 3"
3/0	0.502	0.836	4	0.325	0.595	4	0.325	7' 5"
2/0	0.447	0.745	4	0.257	0.555	4	0.257	7' 3"

