

24th Annual Lineman Rodeo Rule Book

NORTHWEST PACIFIC LINEMAN RODEO JULY 22, 2017

Sponsored by: Portland General Electric, PacifiCorp,

Clark Public Utilities and I.B.E.W. Locals 125 and 659

The Pacific Northwest Lineman Rodeo planning committee would like to thank and congratulate all of the previous year's competitors and participants who take pride in your profession and have the desire to come out, compete, and have fun at the annual Lineman Rodeo! We would like to invite you to this year's Pacific Northwest Lineman Rodeo. It will again be held at **PGE's Linneman Substation, located at 3450 W. Powell Boulevard, Gresham, Oregon**. Competition begins at 8:00 a.m.

A Team for the Lineman Rodeo consists of four participants: two climbing Journeyman, a Groundman, and a Judge, who may also be an alternate for the Team. Apprentices compete individually. Utility Supervisors and Journeymen are Judges, and will follow strict guidelines.

All participants will need to bring their own hooks, belts, hard hat, safety glasses, hand tools, rubber gloves and protectors. **Journeyman teams must bring a hand–line for 45' poles.** We shall provide necessary hot-sticks and special tools, but you are welcome to bring your own, as long as they are approved tools. Long sleeved shirts are required. PLEASE ENSURE THAT ALL BAGS AND TOOLS ARE CLEARLY MARKED WITH YOUR NAME AND/OR COMPANY FOR IDENTIFICATION. Any custom and/or hand-made tools such as bags, holders, etc., must be approved by the Chief Judge prior to an event. ANY tool or stick used on a "line" may not have been customized or modified in any manner, as they will not be allowed in competition.

Listed below are the scheduled events for the 2017 Pacific Northwest Lineman Rodeo:

Journeyman events:

Hurt-man rescue
Pole climb with raw egg
Pin & Glass replacement

Over-the arm jumper High-line bell change out

Pre-apprentice events:

Written test

Slack-block assembly

Apprentice events:

Hurt-man rescue
Pole climb with raw egg

Written test

Slack-block assembly

Relay event

Crossarm assembly Pole climb with raw egg

Attached are the following:

Rodeo Agenda: Page 3 Journeyman Team Events: Page 18-34

Competitors Registration Forms: Page 6-8
Judges Registration Forms: Page 9

Apprentice Events: Page 35-41

Pre-apprentice Events: Page 42-50

Vendor Registration Forms: Page 10 Area Lodging: Page 51

General Q&A: Page 11-13 Directions to Rodeo Grounds: Page 52 Scoring/Judging Guidelines/Rules: Page 14-17 Shirt/Buckle Order Form: Page 53

THE COVER PICTURE WILL BE THE DESIGN FOR THE 2017 NORTHWEST PACIFIC LINEMAN RODEO SHIRTS, LESS ALL OF THE INFORMATIONAL SCRIPT.

FOR ORDERING INFORMATION, SEE PAGE 53.





NSA and Wayne Enterprises are giving each member of the winning team this year a set of the NSA FR Gortex raingear seen below!!





Rodeo Agenda

Friday, July 21, 2017

5:00PM - ?: Judges' Meeting:

Rodeo Grounds 3450 W Powell Blvd. Gresham, OR 97230 (888) 828-1918

It is imperative that all Judges attend this meeting in order that rules and guidelines may be discussed and judging parameters be set for the following day. Dinner will be provided by the 125 Union Hall.

Saturday, July 22, 2017

6:30AM: Registration of contestants, receive scoring packets, and Team or Individual Pictures

8:00AM: Color Guard Ceremony

Opening Ceremony

Rodeo Competition Begins

At the conclusion of the Rodeo and following the last event, a social / dinner hour will take place on the grounds while the competition results are being tallied for Award Presentations.

Once again, the **IBEW Local 125 Union Hall** will be serving refreshments and food for all competitors, participants and spectators. All proceeds from sales will be donated to the Oregon Burn Center. They will, however, need assistance throughout the day, and welcome all volunteers. If you are interested, please contact:

Jake Carter, Business Representative, IBEW Local 125 17200 NE Sacramento St., Portland, OR 97230 (503) 262-9125 Ext. 118

E-mail: jake@ibew125.com

For further questions concerning information or participation in the 2017 Pacific Northwest Lineman Rodeo, please contact:

Graham Arpin	PacifiCorp	503-559-5788	Albany, OR
Rod Lewis	Portland General Electric	503-793-0394	Portland, OR
Joel Wallace	Portland General Electric	503-703-4307	Salem, OR
Don Swindle	Clark Public Utilities	360-992-8849	Vancouver, WA
Ray Evans	NW Line JATC	360-836-2125	Vancouver, WA

For information on or questions on individual events or judging, please contact Zeek McCarthy,

Master Judge: Cell: 360-910-5308

NOTICE

THIS IS AN INFORMATION PACKET ONLY!

YOU ARE NOT
OFFICIALLY REGISTERED
UNTIL YOUR FORM HAS
BEEN SUBMITTED.

ALL CLIMBING EVENTS WILL REQUIRE FULL FALL RESTRAINT, INCLUDING A SECONDARY BELT WHEN NECESSARY!!!

JOURNEYMAN TEAM ENTRY FORM

NORTHWEST PACIFIC LINEMAN RODEO, GRESHAM, OREGON

\$125 FEE PER TEAM - Entry Form to Be Postmarked By July 14, 2017

RODEO RESULTS CAN BE VIEWED AT: WWW.NWLINEMANRODEO.COM

Journeyman #1: Name_					Phon	e:
Journeyman #1: Name_ Address:				_City	State	Zip
Company Name and Address:						
Shirt Size: ☐ S ☐ M	□L	□ XL	□ XXL			
Journeyman #2: Name_					Phone	e:
Address:				_City	State	Zip
Company Name and Address:						
Shirt Size: ☐ S ☐ M	□L	□ XL	□ XXL			
Groundman: Name					Phone	e:
Groundman: Name Address:				_City	State	Zip
Company Name and Address:						
Shirt Size: ☐ S ☐ M	□L	□ XL	□ XXL			
Judge: Name					Phone:	
Address:				City	State	Zip
Company:				<u>-</u>	Occupation:_	<u>-</u>
What would you like to j	udge?	1:		2:	3:	
Shirt Size: ☐ S ☐ M	□L	□ XL	□ XXL			
MAKE CHECKS PAYAB	LE TO:		NOF	RTHWEST PA	ACIFIC LINEMAN ROL	DEO
MAIL CHECK AND COMPLETI	ED FORM	(s) то:	172	thwest Pacific 00 NE Sacran tland, OR 972		sociation

Participants are responsible for their own transportation, hotel, and meal expenses en-route and during the Rodeo. (Expenses and reimbursement should be coordinated through local management.)

Participants are required to sign a liability release before participating in the Rodeo, releasing Rodeo sponsors, and the Rodeo Committee from liability should an injury occur during the Lineman Rodeo.

APPRENTICE ENTRY FORM

NORTHWEST PACIFIC LINEMAN RODEO, GRESHAM, OREGON

\$35 FEE PER APPRENTICE Entry Form to be Postmarked By July 14, 2017

RODEO RESULTS CAN BE VIEWED AT: WWW.NWLINEMANRODEO.COM

Apprenti Name			Phone:					
Company	Name and					Zip		
Location:								
Shirt Size	<u>s:</u> □S □M	0 L 0	XL 🗆 XXL					
MAKE CI	HECKS PAYAB	LE TO:	NORTHWES	ST PACIFIC LINE	MAN RODEO			
MAIL CHE	CK AND COMPLET	ED FORM(S) T		Pacific Lineman acramento St. R 97230	Rodeo Associa	ation		
during the Participar	e Rodeo. (Exper nts will be require	nses and rei	mbursement sh liability release	on, hotel, and me ould be coordinat before participatir illity should an inju	ed through locang in the Rodeo	I management , releasing the		
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То	p First-year App	rentice (still	in the first 1/3 o	ave separate awa f their program du f their program du	ıration).			
HOW LO	NG HAVE YOU	BEEN IN A	N APPRENTICI	ESHIP PROGRAI	M? (months)			
HOW LO	NG IS THE SCH	IEDULED D	URATION OF Y	OUR PROGRAM	//? (months)			
NAME OI		SOR:		PHON	E:			
NOTE:	VIA SUPERVIS	OR, INSTR	UCTOR, ETC.	VERIFY THEIR L LATE REGISTRA ICE IN THE "THI	ATION MAY			

PRE-APPRENTICE ENTRY FORM

NORTHWEST PACIFIC LINEMAN RODEO, GRESHAM, OREGON

\$35 FEE PER PRE-APPRENTICEEntry Form to be Postmarked By July 15, 2017

RESULTS OF THE RODEO CAN BE VIEWED AT: WWW.NWLINEMANRODEO.COM

Pre-apprentice: Name	P	Phone:					
Company Name and	City	StateZip					
Location:							
Shirt Size: ☐ S ☐ M ☐ I	L 🗆 XL 🗆 XXL						
MAKE CHECKS PAYABLE TO	D: NORTHWEST PACIFIC	LINEMAN RODEO					
MAIL CHECK AND COMPLETED FOI	RM(s) TO: Northwest Pacific Line 17200 NE Sacramento Portland, OR 97230						
during the Rodeo. (Expenses a Participants will be required to	sign a liability release before partic	nd meal expenses en-route and rdinated through local management. cipating in the Rodeo, releasing the an injury occur during the Lineman					
	s to their ability to climb. Autho	ertification, through a verifiable rization from your employer may					
Please check one:							
Enclosed is a copy of m	y climbing verification through:						
Name of school or training acad	demy:						
Enclosed is authorization	from my current employer that I a	am competent at climbing.					
Employer:							
Supervisor:							

VOLUNTEER JUDGE'S FORM

The 2017 Northwest Pacific Lineman Rodeo Competition will again be held at PGE's Linneman Substation, 3450 Powell Blvd., Gresham, OR. We would like to thank all participants in the past for taking pride in their profession and dedicating their time to support this annual event.

In recent years, there has been somewhat of a shortage of Judges for the competition. We would like to put out a request for Journeyman Linemen and Supervisors to come out and participate as Judges for this year's competition. If anyone would be interested, please fill out the information below and send this form to the address listed below. You will be sent an information packet for review of the judging guidelines and rules, which you should review prior to the Judges' Meeting, Friday, **July 21, 2017**. Dinner will be provided at the end of the judges meeting.

Thank you,

udge's Name:	Phone:	
ddress:		
ity:		
ompany Name and Address:		
hirt Size: □ S □ M □ L □ XL		
vent Preferences: 1:		
2:		
3:		

Note: All judges must wear proper PPE

Portland, OR 97230

Northwest Pacific Lineman Rodeo July 22, 2017 Vendor Registration

The Northwest Pacific Lineman Rodeo, sponsored by PGE, PacifiCorp, Potelco, Clark PUD, IBEW Locals 125 and 659, and planning committee would like to thank you for your participation and interest in this year's event. The 2017 Lineman's Rodeo will again be held at:

Portland General Electric's Linneman Substation 3450 W. Powell Blvd. Gresham, OR 97230

The Vendor Fee for this year's rodeo is \$100; door prizes are optional. Spaces may be limited, so please reply prior to July 14, 2017.

Tents (10' x 10') are available for extra door prizes - make sure we know ahead of time as we may run out.

If you desire a larger tent, 10' X 20' tent rentals are available through Key Manufacturing & Rentals. Quoted prices are \$195/day for a 10' X 20' tent. Please contact the tent supplier if you choose to have one set up, and let us know what size you will use, so we'll know the space you will need. If you use the tent supplier, please make arrangements to pay them directly, not through the Rodeo Association. Availability is limited due to busy season, reserve as soon as possible; contact Chuck Krieger at 503-307-3759, email at: chuck.krieger@terex.com.

Electricity is available but limited, so please indicate if you will require it at your booth. Should you have any special requirements, please contact us and we will make every effort to accommodate your requests.

Please fill out and return form to: Northwest Pacific Lineman's Rodeo Association

17200 NE Sacramento St. Portland, OR 97230 Attn: Don Swindle

10' X 20'
<u>1</u>

Opening Ceremonies begin at 8:00a.m. We look forward to seeing you and again thank you for your

interest.

Northwest Pacific Lineman's Rodeo Association Planning Committee

Northwest Pacific Lineman Rodeo General Questions and Answers

- 1. Who is qualified to enter and what is a Team? A Team consists of two Journeyman Linemen, one Groundman, and a Judge. The Groundman may be a Journeyman Lineman, but remains the Groundman for all events. If a competitor is hurt or disqualified, he/she will be out of the competition for the remainder of the events. The Team can then substitute an alternate man as his replacement. The Groundman may, with the Chief Judge's approval, be an alternate, but he must also be a Journeyman Lineman.
- 2. Will any events be in aerial buckets? No!
- 3. May the simulated "hot" events be rubber gloved? No. Gloves must be worn only when a Lineman breaches minimum clearances, unless otherwise specified. All "hot" events, unless stated otherwise, are simulated 12.5kv, and must be worked with sticks.
- **4.** What will we be scored on? You will be scored on Safety practices, work practices, equipment handling, neatness, and a timely competition of each event.
- **5.** Who will be the Judges? Utility Supervisors, Journeyman Linemen, working or retired, will be the event Judges.
- 6. How many Judges will there be for each of our events? Except for the Speed Climb, all events will have only one Judge per Team or Apprentice. The Speed Climb event will have two Judges to get a correct and average time.
- 7. Will there be cause for immediate disqualification? Yes. Bad or unruly conduct, and consumption of alcohol during competition are grounds for disqualification.
- 8. Do we have to furnish any tools? Yes. You will need hooks, belt, hard hat, safety glasses, fall restraints, long sleeved shirts, hand tools, rubber gloves, hot line tools and hand-lines for 45' poles. We will provide the hand-lines for the High-line event, if desired, and the Hurt-man Rescue. Though we will provide hot line-tools and cover up equipment for most events, for Teams that were unable to ship their own, supplies may be limited. You are welcome to bring your own tools, as long as they are not modified in any way.
- 9. Can I use custom or homemade tools? Any tool used on a conductor, simulated "energized" or not, must not be custom made or modified in any way. Any questionable hot-line tool may need approval of the Event Judge, and may be subject to identification in Manufacturer's Catalogs available on hand. Glove bags, stick bags, tool holders, etc., may be modified or customized, and are subject to approval of the Master Judge.
- **10. Will there be bleachers available at the Rodeo grounds?** No, more tents for shade was opted for instead. It would be a good idea to bring your own chairs, if desired.
- 11. Will refreshments be available? Yes, the IBEW Local 125 Union Hall will be providing food and beverages at the site. All of the proceeds will be donated to the I.B.E.W 125 Brotherhood Fund. Note: Per OLCC all alcoholic beverages must be purchased through the concession stand.

- **12. Can we stay on the Rodeo grounds?** Yes, provided you have self contained camping equipment. Security will be provided Thursday evening through Sunday morning.
- **13. Can we ask our Judge questions?** Yes, but only prior to the start of the event. You may not question him once your time has started.
- **14. What happens when our Judge is from my area or company?** You should request another Judge.
- **15. May I contest a call if I disagree with a deduction?** Yes. You may contest a call with the Chief Judge of your event, and the Event Judge, if necessary, without consequence.
- 16. A first aid station and paramedics will be on the grounds throughout the day.
- 17. Will video footage be allowed to settle disputes? No, not at all !!!
- **18. Can I use Velcro straps on my climbers?** Yes, if they are used as manufactured, and not modified in any way.
- 19. Are Team shirts required? No. Only long sleeved shirts are required.
- 20. Can an Apprentice be a Groundman on a Rodeo Team, while still competing in the Apprentice competition? Yes.
- **21. Is there a minimum hot-stick length?** Yes; 6' sticks are the minimum lengths, unless otherwise specified.
- **22. Is the Groundman the safety watch?** No, the Judge is the safety watch.
- 23. If I am the Groundman on a Team, can I climb in the Hurt-man rescue or Speed climb if I hold a Journeyman's card? No, the designated Groundman remains so during all events, except as noted in Question 1, above.
- 24. Our area has a person who would like to volunteer as a Judge, although he is not a Supervisor, past participant, or a Journeyman Lineman. Can he still be a Judge? He may not be a Judge, but volunteers are always needed for the Rodeo in staging areas, Hurt-man rescue, and other areas.
- 25. Is it important to provide a Judge from my area? Yes. As a general rule of thumb, we need at least one Judge for each Team competing. It places a real hardship on local utilities and contractors to provide half of the Judges needed. We encourage all Teams to bring as many Judges as they can. It is important, however, that all Judges be at the Friday night Judges meeting to give input, discuss methods and work practices, and set common guidelines for judging the competition.
- **26.** Are safety glasses required in all events? Yes; they need not have side shields. If they are not safety glasses, they will be allowed only if they are approved for use by your employer.
- **27.** I still have a single locking safety belt, will they be allowed? No. OSHA Regulations disallow them now.

- **28.** Do I have to have the leather belt loop on my safety belt? No. It is a common practice to remove them and they do not represent a safety hazard if missing.
- **29.** Can we run a hand-line while the Linemen are working? Yes, but only if they are safe-tied in, and not ascending or descending the pole.
- **30.** If a Lineman is climbing, can the other Lineman secure the hand-line to stop movement, and the Groundman hang something on it? Yes, as long as the hand-line is not "running," and does not interfere with the other climber.
- **31.** If we contest a call, will we receive a deduction? No. However, you **MUST** satisfy your contested call with the Event Judge, or the Master Judge if necessary, before **LEAVING THE EVENT AREA**. After leaving the area, the call stands and will be recorded in the Scoring trailer.
- 32. If we feel we have not been scored correctly, can we notify the person doing the recording in the Scoring trailer? NO!! Absolutely no contestants are allowed in the Scoring trailer, as it has posed a problem in the past. Once you leave your event, your score and time stand as is!!!
- **33.** As a judge do I need to bring anything? Yes. Proper work wear hard hats, glasses & footwear.

SCORING GUIDELINES

- 1. Scoring will be judged for:
 - ✓ Safety
 - ✓ Work Practice
 - ✓ Neatness and Ability
 - ✓ Equipment Handling
 - ✓ Timely Completion of the Event
- 2. Time will be used only as a tiebreaker.
- 3. Total number of events for each Team: 5 (five), each Apprentice: 5 (five).
- 4. Each event is worth 100 points.
- 5. For each event, the Teams, or Apprentice with the highest score (100 points), shall then use time to determine the winner. The Team with the fastest time in that event will be determined the winner.
- 6. There will be **no bonus** points for placing 1st, 2nd, or 3rd in any event.
- 7. Upon completion of all events, the Team or Apprentice with the highest total points will be determined the Overall Champions of the Rodeo. In the event of a tie score, the Team or Apprentice with the lowest **total time** will be determined the Champions.

As not all Apprenticeship programs are consistent in length, you will have a place on your registration form to indicate the number of months you have been in the program, as well as the total length of your program. The category you are placed in will be based on **one-third of your overall program length.**

NOTE: APPRENTICES MAY BE REQUIRED TO VERIFY THEIR LENGTH IN A PROGRAM VIA SUPERVISOR, INSTRUCTOR, ETC. LATE REGISTRATION MAY AUTOMATICALLY PLACE AN APPRENTICE IN THE "THIRD STEP" CATEGORY.

JUDGING GUIDELINES

The Northwest Pacific Lineman Rodeo Committee sets forth the judging guidelines listed below. Each event will be worth a total of 100 points.

All safety rules are to be observed during events. (See the following list for some of the point deductions. For additional deductions, see individual event descriptions, as well as questions and answers.)

INFRACTIONS - 2-POINT DEDUCTION

- Lose hard hat.
- Not wearing safety glasses.
- Dropping tools or equipment.
- Burnouts.
- Hot-dogging.
- Hand-line operations while climbers are ascending or descending a pole, or unsafe-tied.
- Misuse of rubber.
- Second man starts climbing before first man is buckled off.
- Twisted hand-line operation.
- Not wearing OSHA-approved Lineman's belt.
- Poor housekeeping.
- Lack of communication.
- Exceeding the mean time to complete an event.
- Climbers ascending or descending at the same time.
- Long sleeved shirts are required. OSHA rules will apply. Journeymen should know what to
 use and what to wear. If shirt has buttons on the sleeves, they must be buttoned. Sleeves
 can't be pushed or rolled up.
- Dropping hand-line before one Lineman is on the ground: hand-line could be the lifeline.
- Rescue dummy not hitting the ground in a gentle, controlled manner.
- Breaking minimum clearance rules.
- One Lineman securing a phase while the other Lineman completes a task.
- Not using fall restraint.
- Not arriving within 20 minutes to next event.

GENERAL RULES - 10-POINT DEDUCTION

- Accidental contact with phases.
- Working opposite phases.
- Throwing materials or tools off poles.
- Rescue dummy free falling to the ground or otherwise, in the Judge's opinion, is "out of control" of the rescuer.

RULES

- Burnout/Cutout/Fall Maintaining at least one hook in the pole, and staying in control doesn't
 constitute a burnout, cutout or fall. A 2-point deduction will result in a situation where control is
 lost and/or both Gaffs leave the pole causing the climber to drop or fall.
- 2. Grabbing onto braces, arms or hardware to assist a climber when positioning themselves on a pole will result in a 2-point deduction.
- Failure to wear proper safety equipment correctly such as hard hats, safety glasses, long sleeved shirts with sleeves rolled up, and unbuttoned or buckle straps not tucked in will result in a 2-point deduction.
- 4. Tarps laid on the ground for purpose of laying hot sticks may be walked on with no penalty. Walking on tarps with gaffs on, **covered or not**, will result in 2-point deduction
- 5. Any item dropped, unless otherwise noted, will be a 2-point deduction, unless otherwise noted.
- 6. When simulating "HOT" events, the work being performed must not cause excessive shaking of the pole or conductors; excessive shaking MAY result in a 2-point deduction.
- 7. Judging of the Hurt-man Rescue event does not stop once the dummy is on the ground, the rope slack. Though the time has stopped, contestants may still receive deductions for mishaps that occur while re-hanging the dummy and descending the pole. Please read guidelines thoroughly; they have changed.
- 8. Judges are responsible to oversee that the dummy is properly re-hung for the next contestant.
- 9. Any Team member who persists on gathering information from a Judge, heckling or arguing a point, will be urged once to drop the issue. Failure to do so may result in up to a 5-point deduction.
- 10. Teams that fail to report to event stations after being summoned twice may forfeit that event and receive no points. Discretion may be used by the Chief Judge of the event.
- 11. Each event will simply begin as follows: When the Team/Apprentice tells the Judge they're "READY", time starts when the Judge says, "GO."
- 12. All hot-sticks are to hang on approved hot stick hangers or be in bags with the exception with sticks that lock on, unless otherwise specified.
- 13. No power tools, hydraulic, electric or otherwise, are allowed.
- 14. When applying cover and rubber, only standard practices are acceptable. No taping or tying of cover is allowed.
- 15. At no time shall one climber secure a phase while the other climber completes a task.
- 16. Multiple dings apply against safety issues only! When a safety violation is broken multiple times, the proper amount of points will be deducted. Example: A Journeyman breaches proper clearances three times that will result in a total of a 6-point deduction.

- 17. Unless otherwise noted, failure to complete an event will result in a 100-point deduction.
- 18. It is your responsibility to make sure your score book is filled out and paperwork turned in before leaving stations.

LISTED ABOVE ARE ANSWERS TO COMMONLY RAISED QUESTIONS, THESE ARE ONLY SOME OF THE DEDUCTIONS. ALSO SEE EVENT DESCRIPTIONS, QUESTIONS & ANSWERS, ETC.

JOURNEYMAN TEAM EVENT ORDER MATRIX

THERE IS A 20 MINUTE TIME LIMIT BETWEEN EVENTS!

Journeyman Teams	Hurtman Rescue Event 1	Pin/Glass Change Event 2	Change Jumper		Pole Climb Event 5
Team 100	1	2	3	4	5
Team 101	2	3	4	5	1
Team 102	3	4	5	1	2
Team 103	4	5	1	2	3
Team 104	5	1	2	3	4
Team 105	1	2	3	4	5
Team 106	2	3	4	5	1
Team 107	3	4	5	1	2
Team 108	4	5	1	2	3
Team 109	5	1	2	3	4
Team 110	1	2	3	4	5
Team 111	2	3	4	5	1
Team 112	3	4	5	1	2
Team 113	4	5	1	2	3
Team 114	5	1	2	3	4
Team 115	1	2	3	4	5
Team 116	2	3	4	5	1
Team 117	3	4	5	1	2
Team 118	4	5	1	2	3
Team 119	5	1	2	3	4
Team 120	1	2	3	4	5
Team 121	2	3	4	5	1
Team 122	3	4	5	1	2
Team 123	4	5	1	2	3
Team 124	5	1	2	3	4
Team 125	1	2	3	4	5
Team 126	2	3	4	5	1
Team 127	3	4	5	1	2
Team 128	4	5	1	2	3
Team 129	5	4	3	2	1

JOURNEYMAN HURT MAN RESCUE – SIMULATED HOT ON 40' POLE

There will be two judges assigned to each team.

This will be a three-man team event with all three contestants participating at the same time and at the same station. Two judges will be assigned to each team. One judge will be the initial responder to the emergency call and the other will run the stopwatch and observe the team for infractions. Both judges can deduct points from a team. Time starts at the judge's signal "GO". This event simulates that a man has been injured while working on a crossarm.

There will be 2 poles for this event. One will have a crossarm with two phases tied in. A rescue dummy will be strapped in above the braces, as in standard pole-top-rescue. An Ox-Block hand-line, equipped with the Ox-Hook, will be hanging to one side of the rescue dummy on the crossarm. The second pole will have a cutout mounted, simulating the "FEED", to the pole with the "injured" worker. There will be a shotgun with a switch stick attachment hanging from the Line-side hot line clamp.

PRIOR TO START:

Each team has four minutes to ask questions and adjust belts prior to the start of the event. The handline may not be repositioned during the setup.

The linemen's belt and hooks will be hanging on a structure simulating hanging in a truck bin, with safety straps snapped into D-ring and belt unbuckled.

Rubber gloves are inside the glove bag at the start of the event and are required for the climbers, ground to ground. Rubber gloves are also required for the groundman if he/she intends to come in contact with the handline or pole prior to opening the disconnect.

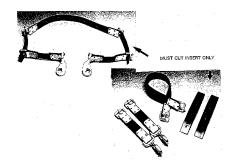
The hand line may not be relocated during the rescue and will not be touched by the contestants prior to start time.

The hurt man may be lowered in any manner as long as he has a controlled descent and does not severely contact the pole or ground in a manner that may appear to cause further injury.

The mannequin shall be tied under the arms and secured using the Ox-hook as demonstrated in the video listed. You may view the demonstration video at *https:youtu.be/6whGqOLQqSY*

The linemen on the pole must call out "Headache" loudly if any item is dropped.

The "insert" is the only item to be cut. There will be a 10-point deduction for cutting the belt in the wrong place.



The mannequin should be moved smoothly to the ground. Contacting the pole is acceptable.

Mannequin initial contact with ground must be within the work area circle.

Time is over when the mannequin is on the ground and the rope is slack. Any team member may signal slack in the rope.

The ground man will assist in hanging the hurt man mannequin for the next team.

Exceeding 4 minutes to complete the event will result in a two-point deduction.

Judges use a 3" PVC conduit between the rope and the mannequin to evaluate the spacing in the rope knot.

START:

Time starts when judge says "go"

The Journeymen will remove their tools from the structure and immediately proceed to the work circle where he will tool up. He may put his belt on while moving to the circle; but may only put climbers on while in the work circle. The **Groundman** will begin to call the dispatcher using the supplied script. One judge will act as the dispatcher and will respond according to the script. The contestant calling for help must complete the written script. Once the judge acknowledges the call for help is completed, that competitor should proceed to help the other two.

One **Journeyman** must put his tools on, climb the "FEED" pole, invert the shotgun, and use the attachment to open the cutout. He must then remove the "Line-side" hot line clamp and declare the line as de-energized. He must use the shotgun to remove the clamp. After doing so, he shall wait until the rescue is complete. At that time, he may restore the station to its original state and descend the pole. Rubber gloves are required ground-to-ground. Though time is stopped, standard safety practices will still apply.

The second Journeyman will put his tools on and proceed to rescue the mannequin using standard procedures. The hand line will not be considered "hot" after the fuse barrel has been opened. However, rubber gloves will still be required ground-to-ground. The climber may rig the hurt man as per the instructions in the video listed. Ask your Judge if you have any questions. The hurt man must be lowered in a controlled descent; however, the hand line or hand line block cannot be relocated. The ground man will assist in lowering the hurt man; time stops when the hurt man mannequin is on the ground and "slack" is called by a team member.

Although the time has stopped the team will continue to be judged until the event is restored, (proper work practices will be used while restoring the event) and the team has verified their score and left the exit gate at the event.

Exceeding 4 minutes to complete the event will result in a two-point deduction.

Judges use a 3" PVC conduit between the rope and the mannequin to evaluate the rope knot. Points will not be deducted for a "too tight knot" only for a "too loose knot".

Journeyman Hurt Man Rescue Script

Contestant: Truck 4952 to the Dispatcher... "WE HAVE A MAN DOWN EMERGENCY."

Judge: Dispatcher to Truck 4952... "I UNDERSTAND YOU HAVE A MAN DOWN EMERGENCY."

Contestant: Truck 4952... "THAT IS CORRECT. WE ARE LOCATED AT 2011 RENGEL WAY, IN BONNER SPRINGS, KANSAS AND WE HAVE A MAN DOWN. WE ARE BEGINNING POLE TOP RESCUE, AND NEED AN EMERGENCY MEDICAL TEAM DISPATCHED IMMEDIATELY."

Judge: "THIS IS THE DISPATCHER. I UNDERSTAND THAT YOU ARE LOCATED AT 2011 RENGEL WAY, IN BONNER SPRINGS, KANSAS AND NEED EMERGENCY MEDICAL AID."

Contestant: Truck 4952... "THAT IS CORRECT, DISPATCHER. WE NEED IMMEDIATE ASSISTANCE."

Judge: Dispatcher to Truck 4952... "EMERGENCY MEDICAL AID IS ON ITS WAY."

Contestant: Truck 4952... "I UNDERSTAND THAT EMERGENCY MEDICAL AID HAS BEEN DISPATCHED AND IS ON ITS WAY. THANK YOU, AND OUT."

Dispatcher: "10-4. WE WILL BE ON STANDBY IF YOU NEED US...OUT."

2-POINT DEDUCTIONS:

- Breaking minimum safe work clearance of 2'2"
- A Team member not making the emergency call, after Judge says, "GO"
- Team member making emergency call, not making correct call
- Not using correct rigging on the Ox-hook
- Not calling out "Headache!" or appropriate warning, if sheave is dropped
- Not having knife back in sheath before letting mannequin down, if performing rescue alone
- Mannequin hitting pole excessively on the way down
- Poor Team communications
- Dropping of tools and equipment other than hand-line sheave
- Not using switch stick attachment on shotgun to open the fused cutout
- Contacting a phase with the hand-line rope, even if you are wearing rubber gloves
- Dummy not hitting the ground in a gentle, controlled manner
- Not using fall restraints
- Not arriving within 20 minutes from the previous event.

10-POINT DEDUCTIONS:

- Dropping mannequin
- Cutting Bashlin Belt #57-N in the wrong place
- Not removing Hi-side of fused cutout before rigging mannequin
- Incidental contact of dummy before primary is cleared
- Getting in series, from pole to ground. Lineman must jump onto pole
- Contacting a phase with the hand-line rope while anyone *in contact* with the rope is not wearing rubber gloves
- Dummy hitting the ground in what the Judge would consider "out of control," further injuring the victim

MATERIALS PROVIDED:

- Hand-line
- Pole Mannequin
- Shotgun with switch attachment
- Portable radio

- Work Order
- Load dispatcher (Judge)
- Simulated line truck (where tools will be hung)

QUESTIONS & ANSWERS FOR HURT-MAN RESCUE

Q: Is the pole considered energized?

A: Yes.

Q: Must I use a telescoping stick to open cutout?

A: No. One Journeyman must ascend the adjacent pole and use the correct procedures to deenergize the circuit.

Q: Where is the hand-line hanging?

A: On the crossarm, approximately 3' out from the pole.

Q: Does my knife have to be returned to its sheath before letting the dummy down?

A: Only if you are letting the mannequin down by yourself.

Q: Will we be able to handle the hand-line before the electrical contact has been cleared?

A: Yes, with proper safety procedures.

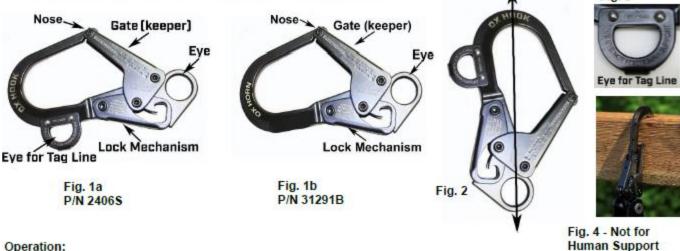
- Q: How much time do we have to complete the rescue?
- A: 4 minutes to have slack in the rope.
- Q: Must rescuers wear rubber gloves?
- A: Yes, if participating in the rescue, until the hazard of electrical shock has been cleared. Climbers will wear rubber gloves **GROUND-TO GROUND**.
- Q: If my hand-line rope contacts a phase and my Groundman is in holding the rope, but we are both wearing gloves, how many deductions?
- A: NONE, AS LONG AS BOTH ARE WEARING RUBBER GLOVES.
- Q: If either of us are not wearing gloves, and are in contact with the rope while it hits a phase, how many deductions?
- A: A 10-point deduction. The line has been de-energized, but not tested and grounded!
- Q: Can we let the dummy free fall to the ground?
- A: No, he must be kept in control at all times. He may brush the pole on the way down, but if he hits the pole or ground too hard, in the Judge's opinion, you could receive a 2-point or 10-point deduction. (See Judging Guidelines on Page 11-14.)
- Q: As there are 2 separate poles, can both Journeymen climb at the same time?
- A: Yes, as long as neither contacts the mannequin or hand line.

BUCKINGHAM MFG.

P/N 2406S 'OX HOOK' / P/N 31291B 'OX HORN'

P/N 2406S 'OX HOOK' (Fig. 1a) and PN 31291B 'OX HORN' (Fig. 1b) are connectors that can be used in conjunction with compatibly rated accessories, for lifting light loads, heavy loads and rescue. These connectors feature a Working Load Limit (WLL) of 2500 lbf. (gate closed), 1000 lbf. (gate open) in the intended direction of load (Fig. 2). The gate can also be locked in the open position so it can be used in a more traditional Handline / Meat Hook manner (Not for human support) (Fig.4). In addition P/N 2406S 'OX HOOK' is equipped with an "Eye for Tag Line" intended only to be used to assist in re-directing loads. P/N 31291B 'OX HORN' does not have an "Eye for Tag Line". P/N 2406S is shown throughout for clarity.

Note: WLL's Listed above are for the hook only. When used in a system, all components must be rated in accordance with the applicable standard / OSHA regulation for which it is to be used.



Operation:

P/N 2406S 'OX HOOK'- NEVER USE THE "EYE FOR TAG LINE" (Fig. 3) FOR HUMAN SUPPORT AS IT IS INTENDED ONLY FOR TAG LINE ATTACHMENT USED TO ASSIST IN REDIRECTING LOADS.

- The 'OX HOOK / OX HORN' features a self-closing, self-locking gate which remains closed until unlocked and depressed open for connection or disconnection. When used for human rescue application, ensure the gate is closed and locked after attachment to individual.
- When used as a Handline / Meat Hook the 'OX HOOK / OX HORN' can also be locked in the open position. To lock open:
 - Depress the lock mechanism (Fig. 5).
 - Depress the gate (keeper) (Fig. 6).
 - Release the lock mechanism (Fig. 7).
 - Release the gate (keeper) Fig. 8).
 - The gate (keeper) is locked in the open position (Fig. 9).



Fig. 10

 Depress the lock mechanism and the gate (keeper) simultaneously and release (Fig. 10).

Limitations and Proper Use:

The 'OX HOOK / OX HORN' has been designed and tested to specific load designations.

Be aware of the designed load limitations and proper user technique. Do not overload the hook. Connectors can and will fail through improper use. If you are not sure of proper application or user technique, seek proper training in handline hook use and technical rope application.

Working Load Limit (WLL) - refers to the maximum load (rated capacity) that the component is authorized to support in use when the load is applied in line with respect to the centerline of the component (Fig. 2). See Working Load Limits above:

The manufacturer does not accept any liability for damages or injury that results from this product being improperly used, in excess of the stated Working Load Limit or from abuse.

Inspection and Retirement Criteria:

The 'OX HOOK / OX HORN' must be inspected by the user at time of purchase, before and after each use and at least annually by a competent person, other than the user. Inspection should include but not be limited to ensuring:

- It is in good working condition
- Rivets have adequate head and are not loose such that function is compromised.
- All surfaces of the hook are free of cracks, distortion, sharp edges, corrosion, burrs and excessive wear.
- Gate (keeper) is not bent or distorted, ensure it does not bind and properly seats in the bill.
- Gate (keeper) and lock mechanism are free of burrs.
- Gate (keeper) and lock mechanism closes completely.
- Gate (keeper) and lock mechanism and rivet attachment points are properly lubricated.
- Gate (keeper) rivet is properly seated / positioned in the rivet slot of the snaphook bill.
 (rivet should be centered and resting against snaphook body surface). (Fig. 1)
- Gate (keeper) and lock mechanism springs are properly seated and aligned.
- Gate (keeper) opens completely, moves through its full range of motion smoothly, and returns to its original
 position within the bill.

An 'OX HOOK / OX HORN' that does not pass this inspection must be removed from service and destroyed.

Inspect each system component or subsystem according to the supplied manufacturer's instructions. If inspection reveals a defective condition, remove the unit from service and destroy it, or contact an authorized servic center for repair. Only Buckingham Mfg. Co. or those people authorized in writing by Buckingham Mfg. Co. may make repairs to this equipment. Product must not be altered in any way.

WARNINGS SPECIFIC TO THIS PRODUCT:

- Completely read, understand, and follow all instructions, warnings, and guidelines pertaining to this and all associated equipment before use. Failure to do so could result in your serious injury or death.
- This equipment is intended for use by properly trained professionals only.
- <u>Employer</u> instruct your employees as to proper use, warnings and cautions before use of this
 equipment.
- Use and inspect this equipment in accordance with the manufacturer's instructions and applicable OSHA regulations.
- Misuse / abuse could lead to improper functioning with risk of injury!!! Never attempt to alter or modify.
- Never use the 'OX HOOK / OX HORN' for rescue when the gate is in the locked open position. Gate must be closed and locked.
- Do not file, engrave, etch or modify for any reason.
- Product must be immediately removed from service and destroyed if subjected to fall arrest, impact loading
 or fails to pass inspection criteria.

- When making a connection using these connectors, ensure the connection is in accordance with safe practice for the intended application of use.
- Improper loading directions can cause the hook to fail or the gate (keeper) to open, releasing the load. Only
 load in the longitudinal direction as shown (Fig. 2).
- Do not install more than one 'OX HOOK / OX HORN' into a single connection ring or opening (except in an emergency situation).
- Do not connect the 'OX HOOK / OX HORN' to objects or openings that may abrade or wear the hook material.
- When the 'OX HOOK / OX HORN' is in the closed position, ensure the lock mechanism cannot come into contact
 with your body or foreign objects including but not limited to beams, structural members, cables, branches
 etc. and be accidentally depressed/disengaged as this will make it very susceptible to rollout.
- When the lock mechanism is not activated, the gate (keeper) should remain securely locked when depressed.
- Depress the lock mechanism. It should move downward easily and spring back to its original position without binding or sticking.
- Refer to additional product manufacturer's instructions that maybe furnished with equipment before use.
- Contact Buckingham Mfg. Co. at 1-800-937-2825 should you have component / product inspection / findings/ use questions.

Buckingham Mfg. is not responsible for subsystem assemblies we do not manufacture and used in conjunction with this component.

It is the responsibility of users of this equipment to understand these instructions and to be trained in its correct installation, use, and maintenance. These individuals must be aware of the consequences of improper installation or use of this product. These instructions are not a substitute for a comprehensive training program. Training must be provided on a periodic basis to ensure proficiency of the users.

IF YOU HAVE ANY DOUBT CONCERNING THE USE OF THIS PRODUCT - DO NOT USE IT!

Maintenance, Cleaning & Storage:

Keep the 'OX HOOK / OX HORN' dry and clean. Do not store in humid or salty air, at extreme temperatures, with damp clothing or near solvents or corrosive chemicals. A dirty product should be washed and rinsed in clean water, then dried. The use of lukewarm water with dish soap such as 'Dawn' provides the best and safest method of cleaning without having any adverse effects on the plating. Rinse connector in lukewarm water after cleaning. A clean dry cloth can be used to dry the connector. LUBRICATE lock mechanism and gate (keeper) on both sides after cleaning and AT LEAST WEEKLY or AS OFTEN AS REQUIRED to maintain smooth operation (no binding) with light weight lubricant such as WD-40®.

Patent Pending

BUCKINGHAM MFG. CO., INC. BINGHAMTON, NY 1-800-937-2825 www.buckinghammfg.com



JOURNEYMAN TEAM POLE CLIMB W/ RAW EGG

PLEASE READ THOROUGHLY!!! THIS IS A NEW FORMAT FOR 2017

There will be an inverted 9" pole cap: (Bowco Industries Model BC130020) nailed to the top of a 45' pole and 2 J-hooks.

Both linemen will start with their tools on. The first lineman must be arms length from the pole, with the egg in the bag provided. The second lineman must be outside of the 10' circle painted on the ground.

The purpose of the event is for each Lineman to follow the guidelines exactly, climbing safely and professionally.

- 1. When the Lineman signals the Judge he is "READY", time starts when the Judge says, "GO."
- 2. Climb pole with egg in bucket. Only the egg is allowed in the bucket; no padding may be added.
- 3. Place the egg in the pole cap at the top of the pole.
- 4. Hang the bucket on J-hook.
- 5. Climb down, remove safety strap, and EXIT THE CIRCLE.

TIME DOES NOT STOP.

- 7. The second lineman may then enter the circle and ascend the pole.
- 8. He must drop the bag, place the egg in his mouth, and descend the pole without breaking the egg. Time stops when the second lineman's foot touches the ground.
- 9. Linemen must be in control at all times while ascending & descending pole.

2-POINT DEDUCTIONS:

- Cutouts, slips, or falls
- Failure to leave and retrieve the bucket at the top of the pole
- Second Lineman enters the ring before the first lineman is clear of the ring.
- Failure to use fall restraints
- Not arriving within 20 minutes to next event.

10-POINT DEDUCTION

Cracked or broken egg

MATERIAL PROVIDED:

- 1 Small Grunt Bag
- 1 Raw Grade A medium egg

QUESTIONS & ANSWERS FOR POLE CLIMB:

Q: I wear false teeth. Can I take them out while participating?

A: No.

Q: A Grade A medium egg won't fit in my mouth. Can I use a smaller egg?

A: No. Only Grade A medium eggs will be used.

Q: Do I have to wear rubber gloves during this event?

A: No, but leather gloves are required.

Q: Can I start over if my egg breaks in the bucket on the way to the pole?

A: No. Once the Lineman has chosen their egg, the egg is then the team's responsibility.

Q: If I just drop my bucket, and it doesn't land on the chips, will I receive a deduction?

A: No, not if you simply dropped it. No throwing or tossing of the bags is allowed.

Q: What if our egg hits the ground and doesn't break?

A: Complete your task as required. There will be a 2-point deduction for dropping your egg.

Q: What if the egg is broken by the first lineman while ascending the pole?

A: He/she must dump the broken egg out of the ground, hang the bucket, and descend the pole as normal.

Q: What if the egg is broken in the pie plate, bad enough to not be retrieved by the second climber?

A: The climber must drop the bucket and head to the ground as usual. Time and scoring stop when his foot hits the ground. A bucket truck will be on hand to replace the pole cap. You shall receive the standard deduction for the broken egg.

JOURNEYMAN Sky-pin & Glass Replacement

Mean time: 11 minutes

ALL JOURNEYMEN WILL BE REQUIRED TO WEAR FALL RESTRAINTS.

- 1. This is a simulated 1-phase 7200Kv event.
- 2. **Construction:** 40' pole, single-phase primary, #4 Copper tied in on a ridge pin. The neutral will be on an upset bolt 4' down from the primary.
- 3. Both Journeymen may start with their tools on, but be out of the way of the Groundman.
- 4. Time starts when the team is ready and the judge says "GO".
- 5. The Groundman must take the 3/8" rope provided and throw it over the neutral. When he has hold of both ends of the rope, the first journeyman may begin climbing. The first climber must then unpin the neutral, allowing the Groundman to tag the wire out and tie it to the existing stake provided. Someone on the team must then inform the judge that there is adequate clearance. The second Journeyman may then begin climbing.
- 6. The team must then install a pole-mounted temporary arm, until the phase, and lay it out onto the temp arm. When they determine that they have adequate clearance or cover, they must replace the ridge pin and insulator and re-tie the conductor.
- 7. They must then lower all tools to the ground, re-pin the neutral, and descend the pole. **Note:** At no time neither Journeyman can be safetied ABOVE the neutral when it is attached to the pole uncovered.
- **8.** Time stops when all tools and ropes are on the tarp, and the last climber touches the ground.

MATERIALS SUPPLIED:

- 1- Pole-mounted fiberglass temp. arm
- 1- Tag line
- 1- Tie stick
- 1- Tie wire
- 1- Material bag

- 2- Shotguns
- 1- Sky pin and insulator
- 2- Line covers
- 1- Duckbill clamp stick

QUESTIONS AND ANSWERS:

Q: Must we cover the neutral?

A: Not while it is tagged out. Do not be safetied above the neutral while it is pinned.

Q: Can we rig the hand-line above the neutral?

A: Yes.

Q: Will we be required to cover the phase when it is laid out or cover it?

A: That will depend on the availability of the length of the arms available. (All events will be equal)! PPE and clearance regulations will apply!!!

Must we wear rubber gloves? Q:

A: Only if breaking Minimum Clearance rules.

Q: Can the groundman hold down the phase while we are tying or untying? No. The Linemen must secure the phase while tying and untying.

A:

Q: Is the pin and glass pre-assembled?

A: Yes.

JOURNEYMAN OVER-THE-ARM JUMPER

Mean Time: 12 Minutes

- 1. This is a simulated 12KV event and approved hot-sticks and materials must be used.
- 2. **Construction:** 40' poles, 10' double crossarms, 2-phases. 4/0 AAC will dead-ended on the outside phase positions. The neutral will be on an upset bolt 4' down from the arms. One side of the arm will be grounded, the other side is considered energized.
- 3. The Team will be required to cover the neutral and energized phase, install two pins and insulators on the arms, and tie in the provided jumper. One Journeyman must connect the jumper on the "dead" side using the connector provided.
- 4. Once complete, they must remove the ground, uncover the "energized" phase, and connect that side using the connector and hot-sticks provided. The ground can be reattached to the neutral until the event is complete.
- 5. Once complete, they can uncover the neutral and send all tools to the ground. When both Linemen are safetied **below the neutral** and the hand-line is tied **below the neutral**, "TIME" is called and the clock stops.
- 6. When the judge is ready, the team can remove the jumper and return the station to its original state. No sticks or rubber gloves are required at this time. Though the clock is stopped, all safety rules still apply until both Linemen are on the ground,

MATERIALS SUPPLIED:

- 1- Line cover
- 2- Rubber line hose & hood (neutral)
- 1- Material bag
- 2- Pins and insulators
- 1- Clamp stick

- 2- Pre-cut tie wires
- 2- Shotguns
- 2- XXXX connectors
- 1- Connector stick
- 1- Pre-cut 4/0 AAC jumper

QUESTIONS AND ANSWERS:

Q: Can we climb with rubber gloves?

A: Yes, as is practiced during Lineman Rodeo competition in past events.

Q: Can we safety above the neutral before it is covered?

A: No, it must be covered before either journeyman safeties above it, and uncovered only after both Journeymen are safe-tied below.

Q: May one Journeyman cover the neutral?

A: Yes

Q: Can the first Journeyman hang the hand-line while the second is climbing?

A: Yes, as long as it doesn't interfere with the second climber.

Q: Must we use rubber gloves?

A: Only if breaching the minimum clearance on the conductors.

Q: Can we hang or tie the hand-line above the neutral before it is covered?

A: Yes, as long as you do not break the minimum clearance rules without PPE. However, time does stop until the hand-line and both Linemen are below the neutral.

Q: May we hang the hand-line on the crossarm?

A: Yes, as long as you do not break the minimum clearance rules without PPE.

Q: Do we have to cover the opposite phase?

A: No. The team will decide before the event which phase they will use, then they can disregard the opposite one.

Q: What kind of ties will we be using?

A: Standard pre-cut aluminum ties. A sample will be provided in site for your inspection.

Q: While removing the materials after time has stopped, do we have to take them apart piece-by-piece?

A: Take them down at your own discretion, keeping in mind that only safety rules apply at this time.

JOURNEYMAN HIGH-LINE BELL CHANGE OUT

Mean Time: 15 minutes

- 1. This is a simulated "energized" event.
- 2. Construction: 55' poles, two-pole structure, with a spar arm approximately 5' down from the top. The outside phase will be single 795 MCM conductor suspended on a polymer insulator. X-braces will be installed approximately 10' down from the spar arm. The outside insulators will be hung approximately 41/2' from the center of the pole.
- 3. The team must use proper rigging to replace the suspension bell on an outside phase. Proper lift sticks, guide sticks, lever-lifts, ropes and attachments will be provided.
- 4. Time starts when the team says "Ready" and the Judge says "Go".
- 5. Once the team has used the provided sticks and un-pinned the conductor, they must float it out, calling to the judge that they have the required clearance. One Lineman must then replace the polymer insulator and send the old one to the ground.
- 6. The team will then re-pin the wire, remove and send all tools to the ground.
- 7. Time stops when all materials are on the ground and the last Journeyman's foot hits the ground.

MATERIALS PROVIDED:

- 1- Hand-line
- 2- Slack blocks
- 1- Lever-lift
- 1- 4' nylon sling
- 1- Ball-and-socket tool

- 1- Polymer insulator
- 1- Lift stick
- 1- Guide stick with clamps
- 1- Cotter key tool

QUESTIONS AND ANSWERS:

Q: Do both Journeymen have to be on the pole?

A: Yes.

Q: Can the first Journeyman hang the hand-line while the second is climbing?

A: Yes, as long as it does not interfere with the second climber.

Q: Can the Groundman hang something on the hand-line while the Journeymen are climbing?

A: Yes, as long as he is not running the hand-line or interferes with the climber.

Q: Can we bring our rigging?

A: All relative tools will be provided for lifting and unpinning the conductor. You must use the supplied lifting equipment, but may bring your own stick attachments for the ball and socket if you choose.

Q: Must we replace all of the suspension hardware?

A: No. Only the polymer insulator must be replaced.

ALL LINEMAN APPRENTICES

YOUR FIRST EVENT OF THE DAY WILL BE YOUR WRITTEN TEST. FOLLOW THE MATRIX FOR THE REST OF THE EVENTS

AFTER THAT, YOU MUST PROCEED TO YOUR SECOND EVENT LISTED ON THE EVENT ORDER MATRIX. SCOREKEEPERS SHALL BE KEEPING TRACK OF EXTREME DELAY OF COMPETITIONS THROUGHOUT THE DAY TO ENSURE A SMOOTH AND RAPID PROCESSION OF COMPETITION.

YOU WILL REPORT TO THE LARGE TENT TO TAKE YOUR WRITTEN TEST BY APPROXIMATELY 8:30a.m.

ALL APPRENTICES AND PRE-APPRENTICES MUST TAKE THE TEST AT THE SAME TIME!

IF YOU HAVE NOT REPORTED TO TAKE YOUR TEST BY 8:45a.m, YOU MAY RECEIVE A 5-POINT DEDUCTION FOR THE DELAY.

NOTE: TIMES FOR YOUR WRITTEN TEST WILL BEGIN APPROXIMATELY 30 MINUTES AFTER THE OPENING CEREMONIES HAVE CONCLUDED.

PLAN TO ATTEND IMMEDIATELY AFTER THE OPENING CEREMONIES

There will be *three* separate written tests and a pre-apprentice test given, each with 50 questions: There is one test for each step in the Apprenticeship program that covers, but is not limited to, safety, knowledge, and practical application that you should have acquired during your time in the program. For example, a second year Apprentice will not be tested on what he is expected to learn during his third year, but a third year Apprentice test will cover all materials over his three years.

In order to keep the written test as a viable part of the Rodeo, yet not continually have it appear to be a deciding factor in overall results, we will modify the scoring method this year. You shall receive a standard 2-point deduction, off of your initial 100 points, for each 5-point reduction of your test score, which deductions shall be as follows:

SCORE	DEDUCT	SCORE	DEDUCT	SCORE	DEDUCT	SCORE	DEDUCT
96-100	0 gigs	71-75	10 gigs	46-50	20 gigs	21-25	30 gigs
91-95	2 gigs	66-70	12 gigs	41-45	22 gigs	16-20	32 gigs
86-90	4 gigs	61-65	14 gigs	36-40	24 gigs	11-15	34 gigs
81-85	6 gigs	56-50	16 gigs	31-35	26 gigs	06-15	36 gigs
76-80	8 gigs	51-55	18 gigs	26-30	28 gigs	00-05	38 gigs

APPRENTICE EVENT ORDER MATRIX

THERE IS A 20 MINUTE TIME LIMIT BETWEEN EVENTS!

Apprentice	Written Test Event 1	Hurt Man Event 2	Pole Climb Event 3	Relay Event 4	Slack Blocks Event 5
Apprentice 200	1	2	3	4	5
Apprentice 201	1	3	4	5	2
Apprentice 202	1	4	5	2	3
Apprentice 203	1	5	2	3	4
Apprentice 204	1	2	3	4	5
Apprentice 205	1	3	4	5	2
Apprentice 206	1	4	5	2	3
Apprentice 207	1	5	2	3	4
Apprentice 208	1	2	3	4	5
Apprentice 209	1	3	4	5	2
Apprentice 210	1	4	5	2	3
Apprentice 211	1	5	2	3	4
Apprentice 212	1	2	3	4	5
Apprentice 213	1	3	4	5	2
Apprentice 214	1	4	5	2	3
Apprentice 215	1	5	2	3	4
Apprentice 216	1	2	3	4	5
Apprentice 217	1	3	4	5	2
Apprentice 218	1	4	5	2	3
Apprentice 219	1	5	2	3	4
Apprentice 220	1	2	3	4	5
Apprentice 221	1	3	4	5	2
Apprentice 222	1	4	5	2	3
Apprentice 223	1	5	2	3	4
Apprentice 224	1	2	3	4	5
Apprentice 225	1	3	4	5	2
Apprentice 226	1	4	5	2	3
Apprentice 227	1	5	2	3	4
Apprentice 228	1	2	3	4	5
Apprentice 229	1	3	4	5	2

APPRENTICE HURT MAN RESCUE – 40' POLE

Exceeding 4 minutes to complete the event will result in a two-point deduction.

Construction: 10' cross arms with wood braces. Brace mountings will be 30" out and 21" down from the arm (gain) hole. 40' Class 3 poles.

Time starts at the judge's signal with the apprentice standing at an arm's length from the pole wearing work gloves with a gauntlet (no driving gloves etc.). The apprentice's belt and hooks will be lying on the ground beside him an arm's length from the pole, safety strap snapped into D-ring and belt unbuckled.

No belt will be allowed to be placed on or around the pole.

Looking at the pole from the cross arm side, the hand line will be hung on the right side. The hurt man will hang in the center of the pole on the cross arm side, with both ends of the **Buckingham Rescue SuperSqueeze safety rope** through the braces. This will simulate an injury to a right-handed man, wearing a fall arrest belt. The apprentice must properly use the Buckingham OxBlock and Ox Hook attached to lower the manikin. The apprentice will not be allowed to throw the handline over the cross arm to lower the manikin. If you are unsure as to how to properly use the Buckingham OxBlock handline, please ask your judge at the event staging area. You can also view a demo with the ox hook at: <a href="https://dx.nih.gov/https://dx.nih.gov/https://dx.nih.gov/html/https://dx.nih.gov/html/handline.nih.gov/html/handline.nih.gov/handli

The mannequin should be tied under the arms with three loops on the Ox Hook.

Be sure to call out "Headache" loudly if you drop any part of the OxBlock handline such as the hook or snap. The handline hook or snap must land in the circle of wood chips at the base of the pole if dropped.

You must cut the Buckingham SuperSqueeze rope. There will be a 10-point deduction for cutting the SuperSqueeze belt in the wrong place.

The mannequin should be moved smoothly to the ground, without contacting the pole.

Time is over when the mannequin is on the ground and the rope is slack.

Mannequin initial contact with ground must be within the work circle.

Contestants must use the **Buckingham OxBlock** hand line provided.

Using a length of **3"** PVC conduit between the rope and mannequin, judges will evaluate the rope knotted around the mannequin.



APPRENTICE POLE CLIMB WITH RAW EGG ON 45' POLE

The purpose of the event is to follow the guidelines exactly, climbing safely and professionally.

- When the Apprentice is standing at arm's length from the pole and tells the Judge he is "READY", time starts when the Judge says, "GO."
- 2. Climb pole with egg in bucket. Only the egg is allowed in the bucket; no padding may be added.
- 3. Remove old bucket and drop it to the base of the pole.
- 4. Put egg in mouth; hang bucket on J hook.
- 5. Climb down without breaking egg.
- 6. Time stops when first foot hits the ground.
- 7. No free-fall or hot-dogging. Apprentice must be in control at all times. One hook must be in the pole at all times.

DEDUCTIONS:

- 10-Point deduction for a cracked egg
- See General Rules, Judging and Scoring guidelines (Pages 11-14) for other deductions
- Not arriving within 20 minutes to next event.

MATERIAL PROVIDED:

- 1 Small Grunt Bag
- 1 Raw Grade A medium egg

QUESTIONS & ANSWERS:

Q: I wear false teeth. Can I take them out while participating?

A: No.

Q: A Grade "A" medium egg won't fit in my mouth. Can I use a smaller egg?

A: No. Only Grade "A" medium eggs will be used.

Q: Do I have to wear rubber gloves during this event?

A: No, but leather gloves are required.

Q: Can I start over if my egg breaks in the bucket on the way up to the pole?

A: No. Once the Apprentice has chosen their own egg, the egg is then their own responsibility.

Q: If I just drop my bucket, and it doesn't land on the chips, will I receive deduction?

A: Not if you simply dropped it. No throwing or tossing of the bags is allowed.

APPRENTICE WRITTEN TEST

The written exam will consist of 50 questions.

The test shall cover, but is not limited to, line work safety, OSHA 1910-269, grounding, First Aid, CPR, transformer connections, etc. There will be written, multiple choice, and connection questions on the exam.

You will be directed to the written exam location on the day of the Rodeo.

Again, ALL Apprentices must take their written exam as their first event of the day, immediately after opening ceremonies are concluded.

In order to keep the written tests a viable part of the Rodeo, yet not continually have it appear to be a deciding factor in overall results, we will modify the scoring method this year. You shall receive a standard 2-point deduction, off of your initial 100 points, for each 5-point reduction of your test score. See Scoring Guideline on Page 11.

APPRENTICE SLACK-BLOCKS

Mean time: 8 minutes

Construction: A wire reel and tarp will be provided for you use.

- 1. The Apprentice will start the blocks, rope, tape and tools on the table.
- 2. Time starts when the Judge says "GO".
- 3. The Apprentice must correctly weave the rope through the blocks and attach the rope to the pulling block with an eye splice. The eye splice shall be a maximum of 1" measured on the inside of the loop. The tails must be cut to 1/8" length.
- 4. The Apprentice must then weave a Crown knot on the other end of the rope, cutting the tails to 1/8" in length.
- 5. All trash pieces must be placed in the bucket provided.
- 6. Time stops when the blocks are on the table, trash is picked up and the Apprentice calls "TIME".

MATERIALS PROVIDED:

- 1- Set of slack blocks
- 1- 10' length of 3/8" rope
- 1- Roll vinyl tape
- 1- Trash receptacl

QUESTIONS AND ANSWERS:

Q: Must I wear gloves during this event?

A: No. The only tool required is something to cut the tails with.

Q: Can I tape my rope tails prior to the start?

A: No.

Q: Can I cut pieces of tape prior to the start?

A: Yes.

Q: If I lose a small piece of rope due to wind, etc., is that a deduction?

A: As long as you make a good attempt to gather all debris, there will be no deduct.

APPRENTICE RELAY EVENT

Mean time: 11 minutes

Construction: 2 poles approximately 30' apart. One pole will have a residential riser about 10' off the ground. An extension ladder will be secured against the pole. The second pole will have a transformer, secondary main, and a fused cutout. The cutout gate will be open, with a shotgun with a switch stick head on the bottom hanging from the gate. A hand line will be hanging at the secondary.

- 1. The Apprentice shall then use the ladder to connect the provide service wire at the riser.
- 2. The Apprentice can then proceed to the next pole, rig the hand line and pull it up the pole, securing it to the stake provided.
- 3. After tooling up, they can then ascend the pole, use the provided materials to dead-end and connect the service. **NOTE: ALL connections** must be simulated brushed!
- 4. They must then invert the shotgun and use the switch-stick attachment to close the cutout.
- 5. Time stops when the fuse is closed.
- 6. The Apprentice can then open the fuse and disassemble and set the stations back to their original status.

MATERIALS SUPPLIED:

- 1- Shotgun w/switch stick attachment
- 6- Secondary connectors (9/16" one-bolts)
- 1- Handline
- 1- Tie down stake

QUESTIONS AND ANSWERS:

Q: Do I have to wear rubber gloves?

A: No.

Q: Do I have to brush the wire?

A: Yes, all connections must be simulated brushed (knife, kleins, etc.) and should be indicated to the judge.

Q: Can I carry the connectors in my ditty bag?

A: Yes

Q: Can I place the materials in the bag before the event starts?

A: Yes.

Q: Do I have to be belted in while on the ladder?

A: Yes, when you reach your work area.

Q: Can I have my belt on when the clock starts?

A: No.

ALL LINEMAN PRE-APPRENTICES

YOUR FIRST EVENT OF THE DAY WILL BE YOUR WRITTEN TEST. FOLLOW THE MATRIX FOR THE REST OF THE EVENTS

YOU WILL REPORT TO THE LARGE TENT TO TAKE YOUR WRITTEN TEST BY APPROXIMATELY 8:30a.m.

<u>ALL PRE-APPRENTICES MUST TAKE THE TEST AT THE SAME TIME!</u>

IF YOU HAVE NOT REPORTED TO TAKE YOUR TEST BY 8:45a.m, YOU MAY RECEIVE A 5-POINT DEDUCTION FOR THE DELAY.

NOTE: TIMES FOR YOUR WRITTEN TEST WILL BEGIN APPROXIMATELY 30 MINUTES AFTER THE OPENING CEREMONIES HAVE CONCLUDED.

PLAN TO ATTEND IMMEDIATELY AFTER THE OPENING CEREMONIES

There will be *three* separate written tests and a pre-apprentice test given, each with 50 questions: There is one test for each step in the Apprenticeship program that covers, but is not limited to, safety, knowledge, and practical application that you should have acquired during your time in the program. For example, a second year Apprentice will not be tested on what he is expected to learn during his third year, but a third year Apprentice test will cover all materials over his three years.

In order to keep the written test as a viable part of the Rodeo, yet not continually have it appear to be a deciding factor in overall results, we will modify the scoring method this year. You shall receive a standard 2-point deduction, off of your initial 100 points, for each 5-point reduction of your test score, which deductions shall be as follows:

SCORE	DEDUCT	SCORE	DEDUCT	SCORE	DEDUCT	SCORE	DEDUCT
96-100	0 gigs	71-75	10 gigs	46-50	20 gigs	21-25	30 gigs
91-95	2 gigs	66-70	12 gigs	41-45	22 gigs	16-20	32 gigs
86-90	4 gigs	61-65	14 gigs	36-40	24 gigs	11-15	34 gigs
81-85	6 gigs	56-50	16 gigs	31-35	26 gigs	06-15	36 gigs
76-80	8 gigs	51-55	18 gigs	26-30	28 gigs	00-05	38 gigs

PRE-APPRENTICE EVENT ORDER MATRIX

THERE IS A 20 MINUTE TIME LIMIT BETWEEN EVENTS!

Pre-Apprentice	Written Test Event 1	Crossarm Event 2	Slack Blocks Event 3	Pole Climb Event 4
Pre-Appr 300	1	2	3	4
Pre-Appr 301	1	3	4	2
Pre-Appr 302	1	4	2	3
Pre-Appr 303	1	2	3	4
Pre-Appr 304	1	3	4	2
Pre-Appr 305	1	4	2	3
Pre-Appr 306	1	2	3	4
Pre-Appr 307	1	3	4	2
Pre-Appr 308	1	4	2	3
Pre-Appr 309	1	2	3	4
Pre-Appr 310	1	3	4	2
Pre-Appr 311	1	4	2	3
Pre-Appr 312	1	2	3	3
Pre-Appr 313	1	3	4	2
Pre-Appr 314	1	4	2	3
Pre-Appr 315	1	2	3	4
Pre-Appr 316	1	3	4	2
Pre-Appr 317	1	4	2	3
Pre-Appr 318	1	2	3	4
Pre-Appr 319	1	3	4	2
Pre-Appr 320	1	4	2	3
Pre-Appr 321	1	2	3	4
Pre-Appr 322	1	3	4	2
Pre-Appr 323	1	4	2	3
Pre-Appr 324	1	2	3	4
Pre-Appr 325	1	3	4	2
Pre-Appr 326	1	4	2	3
Pre-Appr 327	1	2	3	4
Pre-Appr 328	1	3	4	2
Pre-Appr 329	1	4	2	3

PRE-APPRENTICE WRITTEN TEST

The written exam will consist of 50 questions.

The test shall cover, but is not limited to, line work safety, OSHA 1910-269, grounding, First Aid, CPR, transformer connections, etc. There will be written, multiple choice, and connection questions on the exam.

You will be directed to the written exam location on the day of the Rodeo.

Again, ALL Apprentices must take their written exam as their first event of the day, immediately after opening ceremonies are concluded.

In order to keep the written tests a viable part of the Rodeo, yet not continually have it appear to be a deciding factor in overall results, we will modify the scoring method this year. You shall receive a standard 2-point deduction, off of your initial 100 points, for each 5-point reduction of your test score. See Scoring Guideline on Page 11.

PRE-APPRENTICE CROSSARM EVENT

Mean time: 10 minutes

This event is to be performed while standing on the ground. Climbing gear will not be needed for this event. Materials will be provided to assemble a double crossarm as per the enclosed drawing.

- 1. Time starts when the Judge says "Go".
- The contestant will assemble the arms on the short pole provided, insuring that washers are reasonably square to the arm and that springs are compressed. D.A. bolts should be fairly close in length on both sides of the arms.
- 3. The clock will stop when the contestant calls "Time".
- 4. After the Judge inspects the arms, the contestant must disassemble and place all materials back on the tarp provided.

MATERIALS PROVIDED:

- 1- Tarp
- All materials for the arms as listed in the drawing.

INFRACTIONS THAT CAUSE A TWO-POINT DEDUCTION:

- Incorrect assembly of the arm
- Going over the mean time
- Diamond shape washers
- · Spring washers not fully compressed

Q: What tools will I need?

A: A wrench, or wrenches, and a ruler should be all you need.

Q: Are gloves required?

A: Yes, as in all events.

EE 221 Crossarm Assembly—8-Foot Double

RCMS Code: BA

	EE 221	_	_
Nominal Size	Code	•	
4" × 5" × 8'	Α		
4" × 6" × 8'	В		
6" × 6" × 8'	С		
6" × 8" × 8'	D		
Brace	Code		٠
Steel, Flat	Α		
Wood, Flat	В		
Steel, Angle, 60" Span × 18" Drop	С		
Wood, Heavy Duty, 60" Span × 18" Drop	D		

Scope

This standard should be used whenever double 8' 0" wood crossarms are selected for medium angle and deadend structures.

Standard References

- EE 001 Crossarms General Information
- EE 011 Crossarms Vertical Loading
- EE 021 Crossarms Deadend Loading
- EE 031 Crossarms Deadend Selection NESC Medium Loading
- EE 041 Crossarms Deadend Selection NESC Heavy Loading
- EE 051 Crossarms Deadend Selection California Light Loading
- EE 061 Crossarms Deadend Selection California Heavy Loading

Notes

- 1. The maximum conductor tension load should be compared to the allowable crossarm load in EE 021.
- 2. 8' 0" crossarms are normally used for three-phase low neutral and single phase delta construction.
- Wood braces are preferred.
- 4. See EE 004 for detailed dimensions of crossarms.
- 5. Double arm assemblies are issued with two sets of crossarm braces.
- 6. The lengths of issued bolts are based on class 4 poles (7¾" diameter) for a 4" × 5" crossarm, class 3 poles (8¾" diameter) for a 4" × 6" crossarm, and class 2 poles (9" diameter) for a 6" × 6" or 6" × 8" crossarm.
- 7. 3/4" double arming bolts are issued with 6" × 6" and 6" × 8" crossarms.

Table I—Component Assemblies

No.	Standard	Description
1	EE 751	Crossarm, Wood (4" × 5" × 8')
		Crossarm, Wood $(4'' \times 6'' \times 8')$
		Crossarm, Wood ($6'' \times 6'' \times 8'$)
2	EE 751	Crossarm, Wood $(4'' \times 5'' \times 8')$
		Crossarm, Wood $(4'' \times 6'' \times 8')$
		Crossarm, Wood ($6'' \times 6'' \times 8'$)
		Crossarm, Wood ($6'' \times 8'' \times 8'$)
3	EE 905	Gain, Crossarm, Metallic with Bounding Clip (3¾" × 4¾") Gain, Crossarm, Metallic with Bounding Clip (4" × 7")
4	EE 811	Brace, Crossarm, Flat Wood
5	EE 801	Brace, Crossarm, Flat Steel
6	EE 821	Brace, Crossarm, Wood, Heavy-Duty (60" span)
7	EE 831	Brace, Crossarm, Steel, Angle (60" span)
8	DY 221	Bolt Assembly, Double-Arming, 5%", with Two Square Nuts and Washers (22")
		Bolt Assembly, Double-Arming, 5%", with Two Square Nuts and Washers (24")
	DY 231	Bolt Assembly, Double-Arming, ¾", with Two Square Nuts and Washers (28")
9	DY 251	Bolt Assembly, Double-Arming, 5%", with Four Square Nuts and Washers (22")
		Bolt Assembly, Double-Arming, 5%", with Four Square Nuts and Washers (24")
	DY 261	Bolt Assembly, Double-Arming, ¾", with Four Square Nuts and Washers
10	DY 151	Bolt Assembly, Machine, 3%", Single Washer (5")
		Bolt Assembly, Machine, 3%", Single Washer (7")
11	DY 161	Bolt Assembly, Machine, 1/2", Single Washer (7")
		Bolt Assembly, Machine, 1/2", Single Washer (8")
		Bolt Assembly, Machine, 1/2", Single Washer (10")
12	DY 381	Bolt, Machine, %" (12")
		Bolt, Machine, %" (14")
13	DY 641	Washer, Spring, Double-Helix (1/2")
14	DY 641	Washer, Spring, Double-Helix (5%")
15	DY 711	Screw, Lag, Static-Proof, 9/16" × 4"

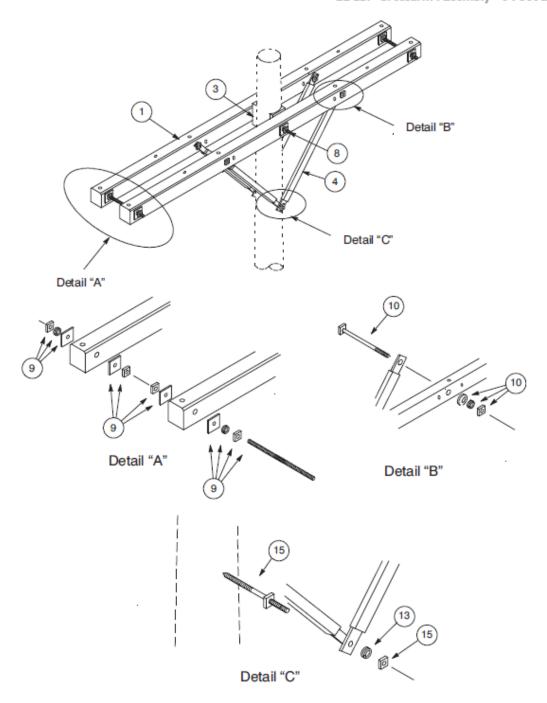


Figure I—Double 8 ft. Wood Crossarm Assembly, Flat Braces

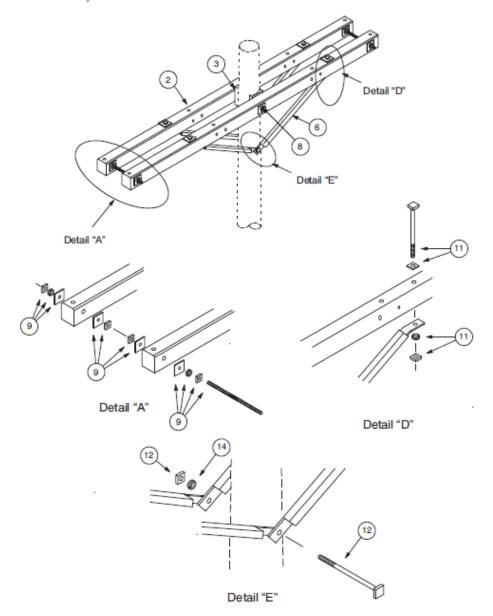


Figure 2—Double 8 ft. Wood Crossarm Assembly, Underarm Braces

PRE-APPRENTICE SLACK-BLOCKS

SEE RULES FOR APPRENTICE SLACK-BLOCKS ON PAGE 36.

PRE-APPRENTICE POLE CLIMB

SEE RULES FOR APPRENTICE POLE CLIMB ON PAGE 34.

---- END OF EVENT DESCRIPTIONS -----

NORTHWEST PACIFIC LINEMAN RODEO

LOCAL ACCOMMODATIONS



Hawthorn Inn & Suites

2323 NE 181st Avenue (Exit 13 from I-84) Gresham, OR 97320 Reservations: 1-800-527-1133

Sleep Inn

2261 NE 181st Ave. Gresham, OR 97230 Reservations: 1-800-SLEEP-INN

Four Points Sheraton, Portland East

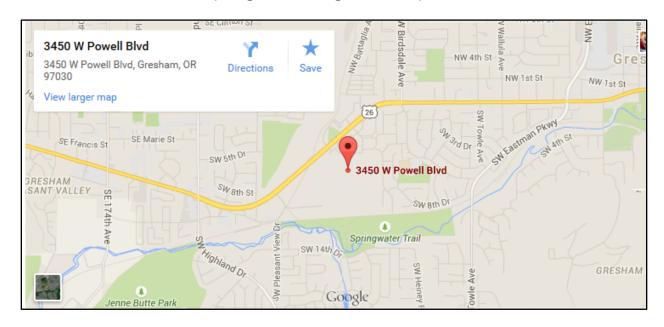
1919 NE 181st Ave. Gresham, OR 97230 Reservations: 1-888-828-1918

NORTHWEST PACIFIC LINEMAN RODEO

July 22, 2017 Gresham, Oregon

Opening Ceremonies at 8:00 a.m. Competition begins at 8:30 a.m. Competitors register from 6:30 a.m. to 8:00 a.m.

Directions to Rodeo Grounds: (Judge's meeting held here)



1.a: From Washington: South on I-205 to I-84 East

1.b: From Southern Oregon: North on I-205 to I-84 East

1.c: From Eastern Oregon: West on I-84 West to NE 181st Ave. (Exit #13)

Exit I-84 at Exit #13, NE 181 st **Ave**. (3.75 miles from I-205)

South on 181st Ave. to SE Powell Blvd. (3.5 miles)

East on Powell Blvd. to FIRST LIGHT (1/2 mile).

Turn right, go about 1/4 mile, and turn into the first road to the left. You will see the pole farm to your left. Proceed into the Rodeo grounds.

2017 Northwest Pacific Lineman Rodeo Order Form

(Special orders and orders for 3X need to be mailed in by June 1, 2017 and will be available by the Rodeo Day, if not sooner)

Name		Company				
Address				_ City		
State	Zip					
Work Phone		(Or	ders will be	e delivere	d to Company when possil	ole)
Short Sleeve Tee: Color: Black	\$20.00 Size Quantity:	L	XL	XXL		
Long Sleeve Tee: Color: Black	\$25.00 Size Quantity:	L	XL	XXL		
Quarter Zip Sweatshirts Color: Black	s: \$40.00 Size Quantity:	M	L	XL	XXL	
Hooded Sweatshirt: Color: <i>Black</i>	\$40.00 Size Quantity:	L	XL	XXL		
Numbered Belt Buckles:	\$45.00 Quantity:					
					Total:	
Make checks payable to Mail to:	Northy Attn: 17200		c Linemar lle nento St.		RODEO ASSOC. o Association	

OR: Contact your Company Representative for the Lineman's Rodeo Committee to place an order.