

16th ANNUAL TEXAS LINEMAN RODEO

- Event Name:** TOOL INSPECTION
(Journeyman) Danny Williams, TEC Loss Control
- Chief Judge:** (Apprentice) Len Jenicek, TEEX
- Event Summary:** Contestants tools will be inspected at the first competition event shown on team's or Apprentice's packet schedule.
- Event Time:** N/A
- Drop Dead Time:** N/A
- Time starts:** N/A
- Time stops:** N/A
- Tools required:** Climbing Belt with Safety Strap and Climbers (Hooks), Hardhat, Safety Glasses, Rubber Gloves in bag, Leather Work Gloves with minimum 2" Gauntlet, Work Boots, Gaff Guards.
- Tools/Equipt supplied:** N/A
- Step 1** Go to first event with tools listed above, in addition to event tools and equipment.
- Step 2** Present items for inspection.
- Step 3** Upon completion proceed to event competition work site with Event Judge.
- Other Considerations:** This procedure is intended to reduce excessive time spent in line.
All tools/equipment must meet ANSI/ASTM standards.
Apprentice must have rubber gloves.
Climbing hooks will be subjected to a 2x4 test.
Any item brought into any competition area at any time may be subject to inspection.
Judges will notify Team or Apprentice at each event where improper tools may be present. Teams or Apprentices will have the option to utilize improper tools and receive a 2 point deduction each time the tool is used, or exchange the improper tool with an acceptable tool with no deduction BEFORE the question time starts.

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| Event Name: | ARMOR ROD and TIE (APPRENTICE) |
| Chief Judge: | James Evatt, New Braunfels Utilities |
| Asst. Chief: | Cody Jennings, Pedernales EC |
| Event Summary: | This is a simulated grounded event. This event consists of removing a neutral and 2 phases from stringing dollies, and install armor rod and tie on conductors on a 40' wood pole with 1/0 conductor on an 8' wood crossarm. |
| Event Time: | 15 Minutes |
| Drop Dead Time: | 20 Minutes |
| Time starts: | At judges' signal after materials and tools are laid out on tarp and contestant is tooled up. Contestants will have 5 minutes for questions before time starts. |
| Time stops: | When climber completes all tie installation and calls time. |
| Tools required: | Climbing Belt with Safety Strap and Climbers (Hooks), Gaff Guards, Hardhat, Safety Glasses, Leather Work Gloves with Gauntlet, Work Boots, Hand tools, Breakaway plastic Belt hook with tag line(s), and Tool Bucket. |
| Tools/Equip supplied: | 1/0 Preformed armor rods #4 Aluminum tie wire (Specifications and numbers coming soon to discussion forums) |
| Note 1 | Gaff guards will remain on until time starts. During the 5- minute prep time you can make your ties, and adjust armor-rods how you would like. Before your time starts you are to tell the judge if you are going to work from the neutral to the phases or from the phases down to the neutral. |
| Note 2 | The climber will climb the pole and remove the conductor out of the stringing dollies, install armor-rod and tie conductor in on the insulators with the tie wire. You will use 3-2 tie for the conductors. Once you have completed the last tie, call time. The Judge will stop timing. You will untie and remove the armor-rods, and put the conductor back in the stringing dollies. You will continue to be judged, but not timed. |
| Note 3 | Once you are off the pole, clean up your area and return to Judge's table to receive your time and score book. |
| Other considerations: | Apprentice may be requested to climb pole and repair improper installations. Apprentice will be required to climb down (timed) and retrieve any hardware dropped from the pole. Climbers shall not use any part of the equipment as a handhold or step. Bucket and tag will be utilized to raise and lower material. |

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| Event Name: | BELL CHANGE (APPRENTICE) |
| Chief Judge: | Greg Wolf, Bluebonnet EC |
| Asst. Chief: | Shawn Willis, Bartlett EC |
| Event Summary: | This event is considered a de-energized and grounded 25 kV event, and consists of replacing a polymer bell on a 40' wood 2 phase pole with 1/0 conductor dead ended on an 8' crossarm. |
| Event Time: | 10 Minutes |
| Drop Dead Time: | 15 Minutes |
| Time starts: | At judges' signal after climber is tooled up. Contestants will have 5 minutes for questions before time starts. |
| Time stops: | When climber's first foot hits the ground |
| Tools required: | Climbing Belt with Safety Strap and Climbers (Hooks), Gaff Guards, Hardhat, Safety Glasses, Work Gloves with Gauntlet, Work Boots, Hand tools, Breakaway plastic Belt hook with tag line(s), and Tool Bucket, Rated strap or sling, Hoist, Grip |
| Tools/Equip supplied: | 25 kV polymer bell |
| Note 1 | Gaff guards will remain on until time starts. Apprentice will climb to top of pole Pull Bucket with hoist and grip inside up to himself |
| Note 2 | Attach bucket around pole or cross arm Catch off wire with grip |
| Note 3 | Take bell out place in bucket and lower to ground Pull bucket back up to self and place bell back onto wire |
| Note 4 | Remove hoist and grip Place in bucket lower to ground |
| Note 5 | Drop tag line to ground calling headache |
| Other considerations: | Apprentice will be required to climb down (timed) and retrieve any tools/equipment dropped from the pole. |

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- Event Name:** POLE CLIMB (JOURNEYMAN & APPRENTICE)
J - Jeff Padavick, Techline
- Chief Judges:** A - Tracy Adler, Navasota Valley EC
- Event Summary:** Contestant will climb a 40' wood pole with egg bucket in mouth, then descend with egg in mouth. Follow the guidelines exactly, climbing safely and professionally. Leather gloves shall be worn during event.
- Event Time:** None
- Drop Dead Time:** None
- Time starts:** At judges' signal with climber tooled up, gaff guards off, and touching pole with one hand.
- Time stops:** When climber's first foot hits the ground.
- Tools required:** Climbing Belt with Safety Strap and Climbers (Hooks), Hardhat, Safety Glasses, Work Gloves with minimum 2" Gauntlet, Work Boots, and Gaff Guards.
- Tools/Equip supplied:** N/A
- Step 1** Climb pole with egg in bucket. Only the egg is allowed in the bucket; no padding may be added.
- Step 2** Climber safeties off and assumes a working position. Remove old bucket and drop it to the ground. Must call out "Headache" prior to dropping bucket. Put egg in mouth and hang bucket on j-hook. Dropped bucket must land within chips or padded area.
- Step 3** Climb down pole with egg in mouth without breaking it (includes cracked eggs). The time stops when first foot hits the ground.
- Other Considerations:** No freefalling or hot-dogging. Climber must be in 3-point contact and in control while climbing. There will be a 10-point deduction for a cracked egg, freefalling or hot-dogging.
Event judging stops when climber leaves the chips.
Work gloves will be worn at all times while on the chips.
Gaff guards must be on before stepping on or off of chips.

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Event Name: WRITTEN TEST (APPRENTICE)
Chief Judge: Bobby Christmas, Guadalupe Valley EC
John Green, New Braunfels Utilities
Judges: Terry Thornhill, TLT Construction

Event Summary: The first Apprentice event consists of a written 50 question test from the 11th Edition Lineman's and Cableman's Handbook. The written test is the first event for all Apprentices following the opening ceremony. It will be held at the pavilion.

All apprentices will bring tools to testing for inspection after test completion.

Event Time: 60 minutes
Drop Dead Time: 90 minutes
Time starts: At judges' signal
Time stops: When test is complete and turned in by apprentice.
Tools required: N/A
Tools/Equipt supplied: N/A
Other Considerations: Questions will be multiple choice.
Pencils will be provided.
Each question answered wrong is a 2 point deduction.
Time will only be used as a tie breaker.
Arriving at the pavilion after test begins results in 2 point deduction.
Talking during the test will result in a 2 point deduction.
Starting the test before time starts will result in a 2 point deduction.
Any form of cheating will result in disqualification from rodeo competition.

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| Event Name: | HANDLINE/BLOCK Rollup (APPRENTICE) Shelton Gilmore, Bartlett EC |
| Chief Judge: | Frankie Mendoza, Navasota Valley EC |
| Asst. Chief: | |
| Event Summary: | This event consists of properly rolling a handline and a set of 3-2 Rope blocks for storage. |
| Event Time: | 5 Minutes |
| Drop Dead Time: | 7 Minutes |
| Time starts: | At judges' signal. Contestants will have 5 minutes for questions before time starts. |
| Time stops: | When apprentice completes tasks, and ropes are placed in storage container, and apprentice calls "TIME". |
| Tools required: | Hardhat, Safety Glasses, Work Gloves with minimum 2" Gauntlet, Work Boots |
| Tools/Equip supplied: | 10'x10' Tarp, 80' Hand-line System, 150' 3-2 Blocks, storage container |
| Step 1 | Properly coil a 80' hand-line using the Butterfly Coil method |
| Step 2 | Properly coil a set of 3/2 Blocks with 160' rope using the Daisy Chain method |
| Other considerations: | Time will stop when the Apprentice calls "TIME", coils will then be inspected for accuracy After inspection the Apprentice will assist the Event Judge to setup the event for the next participant. |

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| Event Name: | HURTMAN RESCUE (JOURNEYMAN AND APPRENTICE) |
| Chief Judges: | J - Stacy Mayfield, BlueBonnet EC A - David Hernandez, GVEC |
| Event Summary: | This event simulates the rescue of a hurt man safetied on a 40' wood pole with a 8' wood crossarm. |
| Event Time: | None |
| Drop Dead Time: | Exceeding 4 minutes to complete the event will result in a 10-point deduction. |
| Time starts: | At judges' signal with member standing an arm's length from pole |
| Time stops: | When manikin is on the ground and rope is slack |
| Tools required: | Climbing Belt with Safety Strap and Climbers (Hooks), Hardhat, Safety Glasses, Rubber Gloves in bag, Leather Work Gloves with minimum 2" Gauntlet (Groundman), Work Boots, and Gaff Guards. |
| Tools/Equipit supplied: | Handline, Manikin with expendable inserts in safety strap. |
| Step 1 | The lineman's belt and hooks will be lying on the ground an arm's length from the pole at the judges' signal. Climber signals judge verbally to contact 911. Rubber gloves will be inside the glove bag (Cuffs down, fingers up, flap secured), with the glove bag attached to the belt (Can take glove bag off on chips) at the start of the event. Rubber gloves are required ground to ground. Gaff guards may be removed when lineman is on mulch. Leather gloves will be required to remove or apply gaff guards |
| Step 2 | Looking at the pole from the cross arm side, the hand line will be hung on the right side. The hurt man manikin will hang in the center of the pole on the cross-arm side, with both ends of the safety straps through the braces. You must always take a minimum of one complete wrap around the cross-arm before lowering the hurt man |
| Step 3 | Manikin should be tied under arms with three half hitches (eye splice should not be used as part of hitches). The half hitch is the only acceptable knot. A maximum of 6 inches slack is allowed from manikin's chest to first half hitch. |
| Step 4 | Call out "Headache" loudly when you drop your sheave. The sheave is to be dropped in the wood chips at the base of the pole. |
| Step 5 | A Bashlin belt 57-N will be used on the manikin. You must cut the Bashlin 57-A insert. There will be a 10-point deduction for cutting the belt in the wrong place |
| Step 6 | Manikin should be moved smoothly to ground without coming into contact with the pole. There will be a 2-point deduction if manikin contacts the pole after initial swing. No deduction for contacting pole after manikin is on the ground. A 10-point deduction for failure to control fall of the manikin.(Controlled descent, no free-fall). |
| Step 7 | The groundman (using leather gloves) will assist in hanging the hurt man manikin for the next team. |
| Other Considerations: | Two climbing journeymen's scores are added together and averaged for the team score. Judging stops when climber leaves the chips. Gaff guards must be on before stepping on or off of chips. |

Event Name:

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| Chief Judge: | URD SERVICE CHANGE (JOURNEYMAN) Ric Newton, Navasota Valley EC |
| Asst. Chief: | James Vasquez, Pedernales EC |
| Event Summary: | Journeyman event, simulated energized secondary, consists of removing meter, replacing underground service, make up connections, simulate oxide inhibitor application, simulate check voltage and install meter.. |
| Event Time: | 10 Minutes |
| Drop Dead Time: | 15 Minutes |
| Time starts: | At judges' signal after materials and tools are laid out on tarp. Contestants will have 5 minutes for questions before time starts. |
| Time stops: | When ground man signals judge, after checks for proper completion and clean work area. |
| Tools required: | Hardhat, Rubber gloves, Safety Glasses, Work Gloves with min. 2" Gauntlet, Work Boots, Hand tools (No power tools), Knives, Cutters, Stripping tools, Wire brush, voltmeter. |
| Tools/Equipt supplied: | Meter socket with Form 2S 120/240 v 3 wire meter, conduit with existing 2/0 service in 2" conduit, and ground mounted secondary pedestal with terminal blocks (Specifications and numbers coming soon to discussion forums) |
| Step 1 | Remove meter and check voltage to determine you have bad voltage. |
| Step 2 | Remove cover on pedestal and check voltage to determine you have full voltage or if it may be a bad XFMR. |
| Step 3 | Disconnect service from the pedestal and at the meter can. |
| Step 4 | Change out bad service with a new run of wire preparing each end of the wire to be reconnected in the meter base and the pedestal. <i>You will be required to <u>simulate</u> putting inhibitor on each wire.</i> |
| Step 5 | Check voltage, close everything and secure it all. Clean up and call " <u>TIME</u> " |
| Other Considerations: | All conductors must be brushed before making connections. Participants must utilize proper PPE when performing tasks. |

Event Name:

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| Chief Judge: | POLETOP PIN CHANGE (JOURNEYMAN) |
| Asst. Chief: | Mark Busby, Bandera EC Jeff Morris Ret. Denton Municipal |
| Event Summary: | This event is considered simulated energized 15 kV on 40' wood pole, single phase construction. Event consists of replacing a pole top pin and insulator, with the use of hotsticks to temporarily relocate an existing phase to a temporary arm. 2 points of control must be maintained while moving phase. Note: Procedures in this event are chosen to reduce costs for competitors organizations, and are not recommended for actual field production. |
| Event Time: | 25 minutes |
| Drop Dead Time: | 30 minutes |
| Time starts: | At judges' signal after climber is tooled up. Contestants will have 5 minutes for questions before time starts. |
| Time stops: | When second climber's foot is on the ground. |
| Tools required: | Climbing belt with safety strap and climbers (hooks), Hardhat, Safety glasses, work gloves with min. 2" gauntlet, Work boots, Gaff guards, 8' stick required on all sticks used. Holding-sticks, tie sticks, link stick and tag line, approved tie sticks and holding sticks ONLY, hand-line, rubber gloves. # 4 aluminum Tie wire for temp tie. Preform tie 1/0 part # wtj0412, iron ridge pin & insulator. Temporary arm Aluma-Form part # F1CS-HV-A24-BVP-1 |
| Tools/Equipt supplied: | |
| Step 1 | Lay out tools and materials on tarp, and tool up. 5 minutes allowed for questions. |
| Step 2 | Climb pole and install cover-up. |
| Step 3 | Install temporary arm |
| Step 4 | Untie phase, move it to temporary arm, and tie it in with # 4 tie wire. |
| Step 5 | Change out pole top pin and insulator. |
| Step 6 | Untie phase, move it back to pole top pin, and install Preform tie. Remove temporary arm & cover up, second climber descends from pole |
| Other considerations: | Climber/s may be requested to climb pole and repair improper installations. Gaff guards must be on before stepping into or out of 10' painted circle. Time may be stopped by the judge during critical weather conditions, or if something is broken or damaged. Bags can be used but must remain on Handline. Deduction for any equipment off tarp when time starts or ends. Climbers may pass tools between poles, but not while groundman is in 10' circle. |

Event Name:

Chief Judge: JUMPER INSTALLATION (JOURNEYMAN)
Asst. Chief: Doug Balzer, Austin Energy
Artis Lawson Jr., College Station Utilities

Event Summary: This event is simulated energized at 15kV. Rubber gloves are required ground to ground. Pole will be worked with 8' hot sticks. Pole is 40' wood with three phase construction. Minimum approach distances must be maintained at all times. The event consists of installing a 1/0 ACSR jumper on a double dead end, (DDE), assembly with hot sticks in order to close a loop to be simulated to be opened at another location. The conductors on both sides of the DDE will be simulated energized.

Event Time: 20 Minutes

Drop Dead Time: 25 Minutes

Time starts: At judges' signal after competitors are tooled up, after 5 minutes for questions

Time stops: When one climber safeties below neutral, the other climber is on the ground, completely off the pole and all tools are on tarp. The climber on the ground or the ground man may signal to the judge to stop time

Tools required: Climbing Belt with Safety Strap and Climbers (Hooks), Hardhat, Safety Glasses, Rubber Gloves in bag, Leather Work Gloves with Gauntlet, Work Boots, Gaff Guards, 8' Hot sticks and attachments as needed to perform task, Hand line, Cover-up, Wire brush

Tools/Equipt supplied: Pin, 15 kV insulator, Fargo clamps,#4 aluminum tie wire, and jumper

Step 1 Lay out tools and materials on tarp. 5 minutes allowed for questions

Step 2 Climbers will ascend pole. All conductors within the minimum approach distance will be covered with approved cover up. This is simulating looping an energized circuit.

Step 3 Climbers will install a pin, insulator, and jumper to the arm. A standard 3/2 top tie will be used to secure the jumper to the insulator. Climbers will then install the Fargo clamps connecting the jumper to the line on both sides of the DDE.

Step 4 Climbers will send down all tools and equipment. One climber will descend to the ground and the other climber will descend and safety off below the neutral conductor before time can be stopped. The hand line must also be below the neutral and may be either bucketed to the pole or on the climber's belt. When all tools are on the tarp, the ground man or the climber on the ground will call to stop time.

Step 5 After time has stopped, the judge will signal the climber on the ground that the climber on the pole may restore the primary to the condition at the start of the event. The climber may ascend above the neutral and disassemble the jumper assembly by hand without cover up. All material will be sent to the ground using the hand line. Judging will continue during this process. When the jumper assembly and Fargo clamps have been sent down, the climber may send the hand line down and descend the pole.

Other Considerations: Climber/s may be requested to climb pole and repair improper installations.
Gaff guards must be on before stepping out of 10' painted circle.
Time may be stopped by the judge during critical weather conditions, or if something is broken or damaged.
The hand line is only tool or equipment that can hang from pole.
Deduction for any other equipment off tarp when time ends.

No tools or material can be hung on pole, conductors, or straps. Tools not in use or material not being installed must remain on the hand line or sent to the ground. Judging will continue until the team leaves the event.