

OVERHEAD ELECTRICIAN

Overhead Department

Duties:

Under semi-direct supervision in a field crew, to perform the work of an Overhead Electrician Starting, First Period and Overhead Electrician Starting, Second Period; to perform construction, repair and maintenance work on energized primary lines, up to 15KV either from the pole or an approved aerial lift device with approved protective devices, work practices, and rubber gloves; or de-energized overhead and underground lines; to instruct and train others in this work; and to perform related work as assigned. Typical examples of the duties are:

1. To install, remove or relocate line equipment such as transformers, capacitors, oil switches, potheads, arms, stringers, pipe frame work, wood platforms, primary, secondary, and service wiring.
2. To install and maintain line equipment or underground cables, including those required for underground residential type distribution, involving such work as laying wires and cables in trenches, splicing wires and cables, attaching soldered or solderless lugs or connectors, insulating splices and connections, phasing-out conductors, installing copper buses and grounding devices, training and cutting lead-covered cables, wiping leaded joints (where it is presently being done) and connecting emergency transformer equipment.
3. To work on the pole in making preparation for work operations such as installing safety equipment on conductors, hoisting and installing blocks, risers and booms, and installing temporary rigging and weather enclosures.
4. On pole installation, replacement and relocation work to perform such operations as lashing poles, temporarily guying poles, removing and installing arms and braces, transferring line and service wires, transferring transformers providing temporary supports for cables, pipes, potheads and conductors.
5. As instructed, to drive a truck or truck-and-trailer; to operate power take-off or trailer-mounted equipment; to control the fall-line in the operation of the power-device used for hoisting and lowering large or heavy equipment on poles or structures; and to operate excavating equipment.

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Overhead Department

Duties: (Cont'd.)

6. To perform service restoration work such as cutting lines in the clear, removing foreign objects from lines, replacing fuses reinstalling and connecting primary, secondary and service wires, lashing, bracing or guying poles; under the direction of a man of higher grade, to perform switching operations.
7. To perform work on transmission line towers such as installing temporary staging, pulling conductors to tension, attaching lines to insulators, washing insulators, operating live-line tools, installing pole-top switches, patrolling transmission lines and visually observing for sources of trouble and performing grounding operations and, very infrequently, to perform work from suspension ladders or a boatswain's chair.
8. Occasionally, to perform such work as installing multiconductor lead-covered cables overhead, using a trolley-chair; testing resistance of ground rods and thawing water pipes.
9. Occasionally, to clean transformer vaults by dusting, sweeping and removing accumulations of dirt.
10. As assigned, to work with an Inspector, Overhead, and make inspections, as instructed, of poles, hardware, arms, conductors, pothead and transformer connections and other such equipment on overhead lines.
11. Occasionally, to perform repair work on pothead equipment, such as replacing front entrance plates, and covers on four-conductor, airbreak potheads.

Qualifications:

1. Two years' experience as an Overhead Electrician, Starting including satisfactory completion of prescribed examinations.

OVERHEAD ELECTRICIAN, STARTING
SECOND PERIOD

Overhead Department

Duties

Under direct supervision, as member of a field crew, to perform all the duties of an Overhead Electrician, Starting, First Period, and upon satisfactory completion of prescribed examinations, to perform the less hazardous work on energized primary lines up to 15KV either from the pole or an approved aerial lift device, and to perform related work as assigned. Typical examples of the duties are:

1. To perform work on energized primary lines up to 15KV with approved protective devices, work practices, and rubber gloves, when there is no other conductor on the same arm between the pole and the conductor to be worked upon, and where special structures such as energized multi-phase buck-arm corners, capacitors, cable terminals, and transformer installations are not involved.
2. With an Overhead Electrician on the pole or in an approved aerial lift device, or a crew member of higher grade or supervisor near its base, to work on any single-phase construction or multi-phase straight-line construction (which may include single-phase transformer, capacitor, or similar equipment installations) where it is not necessary to reach over energized phase conductors to perform the task.
3. To operate a trencher as an on the job training assignment.

Qualifications

1. Nine months experience as an Overhead Electrician, Starting First Period, and satisfactory completion of prescribed examinations.

OVERHEAD ELECTRICIAN, STARTING
FIRST PERIOD

Overhead Department

Duties

Under direct supervision, as a member of a field crew, to perform construction, repair, and maintenance work on de-energized transmission and distribution equipment, and on overhead energized equipment not exceeding 500 volts, including work in vaults and manholes; and to perform related work as assigned. Typical examples of the duties are:

1. To perform construction, repair, and maintenance work on the overhead transmission and distribution and underground residential type distribution systems, installing, removing and framing poles, installing and removing lines, cables, and other equipment, and performing work in vaults, and manholes not immediately adjacent to energized primary equipment.
2. To install service cables on poles, and arms, or stringers, and in trenches, and in connection therewith, to install bushings and cleats, to train cables, to dead-end wires, to splice, terminate, and connect U.R.D. cables; to test for polarity, and to perform work on conductors such as skinning, applying connectors or lugs and insulating.
3. To perform work on customers' premises such as installing, removing, or transferring service wires, and brackets; making temporary installations of brackets; and other similar work.
4. As instructed, to drive a truck or truck and trailer, to operate take-off or trailer-mounted equipment; to control the fall-line in the operation of the power device used for hoisting and lowering large or heavy equipment on poles or structures.

Qualifications

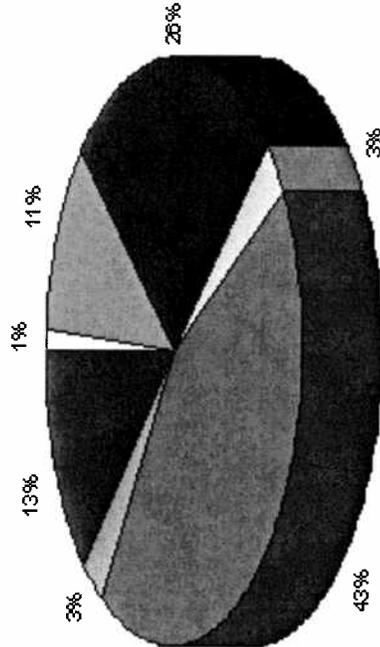
1. Satisfactory completion of prescribed examinations.

Overhead Electrician Training

		2 Year Automatic Progression				
7 Days	15 Weeks	36 Week	4 Weeks	60 Weeks	90 Day	
		OJT & 90 Day Evaluation	Single Phase 2nd Period	OJT & 90 Day Evaluation	Three Phase 3rd Period	Final Evaluation
Introduction to Pole Climbing	Basic Line School 1st Period Advanced Climbing Basic Hand Tools Protective Tools & Equip Special Use Tools Intro to Const. Standards Ropes, Knots, and Rigging Intro to Pole Line Const. Primary Arm & Support Pole Top Extensions Intro to Power Tools Secondary Arm & Support Anchors & Guy Wires Pole Installation Tech. Primary Wire Inst. Secondary Wire Inst Intro to Electrical Concepts Intro to Omb. Secondary Single Ø Meter Inst Intro to URD ABC's of Electricity Advanced Rigging Single Ø Transformers Single Ø Transformer Inst. 900 MHz Radio CIDL Single Ø URD Inst. Adv. Conductor Support Adv. Sec. Sys. Energized Intro to EMC Response Protective Cards Cyclic Training Managing Safety	OJT & 90 Day Evaluation Safe Work Practice Construction Skills Pole Climbing Skills Operating Vehicles Using Tools Equipment Operation Team Work	Single Phase 2nd Period Adv. Pri. Wire Inst. Grounding Line/Equip Rus. Protection Single Ø Pri. Energized Hot Stick Work Single Ø Transf. Change Aerial Lift Equip 1Ø Glowing	OJT & 90 Day Evaluation Safe Work Practice 1Ø Pri. Constr. Skills 1Ø Transf. Connections Team Work	Three Phase 3rd Period Switches, Cable Poles & Cans Multi-Ø Transf. Barks Inst. & Replace Multi Ø URD. Vehicles & Special Equip Resg., Caps & Reclosers 12KV Glowing Adv. EMC Response	Final Evaluation Candidates must be empanelled by the Construction Supt

Each day the candidates begin with climbing requirements consisting of 5 climbs on a 33-40' pole with stretching and confidence building exercises, followed by classroom reading and discussion of the Safety Rulebook.

The chart below illustrates the amount of time required for each training period.



- Pole Climbing
- 1st Per. Basic Line
- 1st Per. OJT
- 2nd Per. Single Phase
- 2nd Per. OJT
- 3rd Per. Three Phase
- 3rd Per. Evaluation