

DEFINITION:

Under general supervision, a journeyman lineman is a key member of a linecrew and is engaged in performing all classes of electrical power transmission and distribution system construction, maintenance and operation work.

EXAMPLES OF DUTIES:

NOTE: The following are the duties performed by employees in this classification. However, employees may perform other related duties. Not all duties listed are necessarily performed by each individual in the classification.

1. Remove and/or install power poles, towers, and other support structures.
Measures: Performs duties with skill, efficiency and safety.
2. Work on energized conductors using rubber glove and/or hot stick techniques.
Measures: Performs duties with skill, efficiency and safety.
3. Remove and/or install anchors, guy wires.
Measures: Performs duties with skill, efficiency and safety.
4. Install or replace cross arms and overhead conductor, etc.
Measures: Performs duties with skill, efficiency and safety.
5. Install, repair, maintain, and/or splice primary and secondary underground conductors.
Measures: Performs duties with skill, efficiency and safety.
6. Set and remove electric meters.
Measures: Performs duties with skill, efficiency and safety.
7. Install, repair, replace, and/or remove street lights and make out appropriate reports.
Measures: Performs duties with skill, efficiency and safety.
8. Install, repair, replace, and/or remove both overhead and underground transformers, capacitor

banks, switches, boxes, connectors, and other line apparatus.

Measures: Performs duties with skill, efficiency and safety.

9. Read work orders, switching orders, circuit maps, and note job changes on maps.

Measures: Performs duties with skill, efficiency and safety.

10. Drive and operate digger derricks, bucket trucks, fork lifts, pole dollies. Operate wire pullers and other associated line equipment.

Measures: Performs duties with skill, efficiency and safety.

11. May be required to work alone patrolling and trouble shooting the City's electrical system.

Measures: Performs duties with skill, efficiency and safety.

12. Perform related duties as assigned.

QUALIFICATIONS:

Knowledge of:

City safety rules; California State general orders 95 and 128; Cal OSHA safety regulations and high voltage safety orders; hazards associated with working on or in proximity to energized high voltage conductors and devices; distribution maps of the City electrical power system; and switches and switching procedures for safe performance of the assigned job.

Ability to:

Interact effectively with the public and employees; apply appropriate and adequate safety procedures; work at any height on steel or wood structures in fair or adverse weather conditions and climb up and down said structures; read drawings, profiles, maps and charts; and locate and repair problems in a safe, timely, and efficient manner.

Education:

Any combination of training and experience that provides the required knowledge, skills, and abilities is qualifying; a typical education would include a high school diploma, or equivalent, with two years of algebra, or equivalent, advanced coursework or training, and three years of City-approved apprenticeship training program. Minimum of three years lineman (post-apprenticeship) experience desirable.

Experience:

Typical experience would be the completion of a three year City-approved apprentice program.

Minimum of three years lineman (post-apprenticeship) experience desirable.

Special Requirements:

Possession of the appropriate California driver's license, or the ability to acquire one within ten days of appointment.

Successful completion of a certified rubber glove training program desirable.

Working Conditions:

Certified Journeyman. Date of study: January 1991. The following duties have been identified as the critical job elements for the **LINEMAN** classification. The Med-Tox Physical Standards Study established several task statements for each physical ability; the task statements selected below are based on the (1) Significant level of physical ability required to perform the task, (2) the high level of rater agreement - reliability, (3) the frequency with which the task is performed and (4) the high degree of criticality and importance raters assigned to the task.

Incumbents in this classification are required to work outdoors in a variety of extreme weather conditions.

STATIC STRENGTH: Pull on a rope to raise a cross arm 40-feet.

EXPLOSIVE STRENGTH: Slam a ground rod driver with a downward motion.

DYNAMIC STRENGTH: While wearing full equipment, climb up and down ten poles in a day using hooks.

TRUNK STRENGTH: Support and twist upper body while working on a pole and reaching out into unusual positions to perform various repairs.

STAMINA: Climb a 100-foot pole on a hot summer day.

EXTENT FLEXIBILITY: Reach out to take a grip off a wire.

DYNAMIC FLEXIBILITY: Repeatedly bend, twist and stretch while working on a pole.

SPEED OF LIMB MOVEMENT: Rapidly reach out with your arms when you have cut out on a pole.

WHOLE BODY COORDINATION: Coordinate movement of the arms and legs while climbing up a pole.

WHOLE BODY EQUILIBRIUM: Maintain your balance while climbing up on a pole on a windy day.

ARM-HAND STEADINESS: While using a hot stick, put a cotter key back in a hole on a dead end pin.

MULTI-LIMB COORDINATION: Drive a forklift.

MANUAL DEXTERITY: Use hand operated presses while working on service at a residence.

FINGER DEXTERITY: While wearing rubber gloves, place a nut on a split bolt connector.

NEAR VISUAL ACUITY: Read schematics on transformers and street lights.

FAR VISUAL ACUITY: While operating the boom, observe the Lineman for signals to ensure proper placement of the boom.

COLOR DISCRIMINATION: See the (red, green, blue, gray, yellow, black, white, etc.) colors of connectors.

HEARING QUIET: Hear and understand the conversation of an elderly person at their residence.

HEARING NOISY: While working on a pole, hear the shouted warnings of the Lineman on the ground.

HEARING LOCATION: No critical elements identified.

HEARING DISCRIMINATION: Recognize an arcing sound.

NOTE: See class spec history file for Job Analysis prepared by Med-Tox.