

**CITY OF ANAHEIM
CLASS SPECIFICATION**

TITLE CODE: 023

CLASSIFICATION: **Apprentice Line Mechanic**

DEPARTMENT: **Public Utilities – Electric Services**

CLASS DEFINITION: To acquire journey level Line Mechanic skills through a formal four year minimum on-the-job training and supplementary education program.

DISTINGUISHING CHARACTERISTICS:

This is the entry-level classification of the Electrical Line Mechanic apprenticeship program.

SUPERVISION RECEIVED AND EXERCISED:

Work under the technical supervision of a Line Mechanic/Crew Supervisor who makes assignments and constantly reviews work.

EXAMPLES OF ESSENTIAL JOB FUNCTIONS: Responsibilities and duties may include, but are not limited to, the following:

Perform a variety of semi-skilled and skilled duties in assisting journey level Line Mechanics in the installation, maintenance and replacement of overhead and underground electrical lines, poles and equipment.

THE APPRENTICE PROGRAM DUTIES:

Under supervision of a qualified journey level Line Mechanic, learn to frame and erect poles, install equipment in the construction and maintenance of electrical distribution lines and installation of underground cable. Under supervision, must learn to work on energized lines up to 12,000 volts.

Training objectives for the first year:

Comprehensive orientation of the Apprentice Program and Department activities with a strong emphasis placed on climbing skills. Climbing and working in elevated positions is considered an “essential job function”.

Highlights of the climbing training include:

- Hands on training at the Utility Service Center training yard.
- Use of fall restraint systems.
- Mastering the basic skills of climbing.

Familiarization with the proper use and care of tools, materials and equipment used in the electrical line trade.

Must obtain a Class A Driver's License, with double trailer endorsement within the first year of the apprentice program.

Training on fundamental safety procedures including:

- CPR / First Aid.
- Confined space procedures.
- Trenching and shoring.
- Traffic control.
- Radio procedures.
- Basic tagging procedures.

Basic rigging and “ground work”.

Learn and demonstrate the ability to work on underground secondary.

Rotate to other crews every 1-2 months.

Must pass the step test given at the end of six months and twelve months.

Training objectives for the second year:

1st Six Months – Emphasis on Overhead Construction

- Climb poles.
- Frame poles, cross arms.
- Learn basic rigging techniques.
- Work on low voltage overhead and underground secondary (<300 volts) under the direct/close supervision of a journey-level employee.
- Operate booms and buckets from the lower controls only.
- Enrollment in the Joint Apprentice Training Commission (Local 1245) Apprentice School, maintaining satisfactory performance.

2nd Six Months – Emphasis on Splicing and Transformers

- Continue to improve climbing techniques.
- Learn additional rigging techniques.
- Work on low voltage secondary without direct/close supervision of a journey-level employee.
- Pre-wire transformer banks to obtain correct voltages.
- Identify equipment and related voltages.
- Install splices.
- Demonstrate a working knowledge of Clearance, Lock-out/Tag-out, Work Permit and other procedures.

Training objectives for the third year:

1ST Six Months

Continued exposure to climbing and rigging.
Work on all overhead and underground secondary voltages below 300 volts unassisted.
Work on all overhead and underground secondary voltages below 300-600 volts and under the direct/close supervision of a journey-level employee.
Perform transformer bank cut-overs unassisted.
Operate bucket trucks from bucket under direct/close supervision of a journey-level employee.

2nd Six Months

Master increasingly difficult rigging techniques.
Perform all overhead and underground secondary work without direct/close supervision.
Operate all equipment (bucket, derrick, pullers, etc.) assigned to crew without direct/close supervision.

Training objectives for the fourth year:

Demonstrate ability to perform the full range of skills from prior years without direct/close supervision.
Conduct an effective tailboard.
Work on energized high voltage equipment from the pole and bucket.
Operate pad-mounted and overhead switches/disconnects.
Complete the Joint Apprentice Training Commission (Local 1245) Apprentice School course.
Pass the journey-level test including a written examination, practical exercises and an oral board provided by the Apprentice Committee.

Perform other related duties and responsibilities as required.

JOB RELATED QUALIFICATIONS:

Experience and Training Guidelines: Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities are as follows:

Experience: Operating heavy equipment is desirable.

Knowledge of: The basic principles of electricity and mathematics up to algebra or equivalent; techniques of safe climbing of utility poles and working with energized power lines.

Ability to: Learn the duties of a Line Mechanic; use aerial lift; follow and retain written and verbal instructions, and be available for overtime assignments. Willingness to attend training classes after regular working hours as outlined in the apprentice agreement; and establish and maintain effective working relationships.

License/Certification Required: Possession of a valid Class C California Driver's License by date of appointment. Ability to obtain, a valid Class A California Driver's License with a double trailer and hazardous material and tank vehicle endorsement, by the completion of the First Year Objectives of the apprentice program.

WORKING CONDITIONS:

Environmental Conditions: Due to the nature of work assignments, incumbents are required to work extended hours including evenings; work in confined underground spaces or at heights above 10 feet; and in inclement weather conditions to include excessive heat, cold, wind and rain. Exposure to dirt, dust and other allergenic substances and live electricity in latter stages of training.

Physical Conditions: Due to the nature of work assignments, incumbents must have the physical ability to use both hands, arms and legs; stoop, bend and lift up to 100 pounds; remove manhole covers weighing up to 800 pounds with the assistance of a mechanical lever. Ability to stand, walk, sit and climb utility poles; visual color discrimination in order to determine color of wire and insulators; and work in elevated positions in close proximity to high voltage equipment. A physical agility and aptitude test may be part of the selection process. Must be able to meet CAL-OSHA requirements associated with the operation of line trucks and bucket trucks.

OTHER:

FLSA Designation: Non-Exempt

Unit Designation: International Brotherhood of Electrical Workers, Local 47 (IBEW)

CAREER LADDER INFORMATION: Satisfactory completion of the apprenticeship program and all related courses outlined in the Apprentice Agreement will result in promotion to Line Mechanic.

Note: The above statements are intended to describe the general nature and level of work being performed by persons assigned to this job. They are not intended to be an exhaustive list of all duties, responsibilities and skills required of personnel so classified. All requirements are subject to possible modification to reasonably accommodate individuals with disabilities.

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Revised 9/1989 - L. Harvey
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