

Summary of Duties: Assembles, erects, and does major maintenance work on high voltage electric transmission towers; strings, splices, tensions, and deadends conductors; installs insulators, spacers, hardware, and other tower line appurtenances; or assigns, reviews, and evaluates the work of one or more crews of Tower Lines Mechanics and helpers engaged in this work; applies sound supervisory principles and techniques in building and maintaining an effective work force; fulfills affirmative action responsibilities; and does related work.

Distinguishing Features: The work of a **Tower Line Mechanic** includes both erecting steel towers and stringing electric transmission conductors. An employee of this class works at considerable distances above ground, handling heavy structural steel members, insulators, and fittings, occasionally works in the proximity of energized lines and may occasionally drive light trucks and operate miscellaneous truck-mounted power equipment. The class of Tower Line Mechanic differs from that of Electric Distribution Mechanic in that the former works with the assembly, installation, and maintenance of tower lines only.

A **Tower Line Mechanic Supervisor** supervises one or more crews of Tower Line Mechanics, helpers, and other employees. An employee of this class ensures that the work is done in accordance with prescribed standards, plans, and specifications and that crew members observe the proper safety precautions. The class of Tower Line Mechanic Supervisor differs from that of Electric Distribution Mechanic Supervisor in that the former supervises the erection of structural steel towers and stringing of high voltage electric transmission conductors. Assignments are received in the form of plans, specifications, or orders which specify the work to be done. The jobs are usually checked during progress and upon completion by supervisors.

As bona fide supervisors, incumbents in the class of Tower Line Mechanic Supervisor are responsible for the performance of the full range of supervisory activities including the application of discipline, processing and resolution of grievances, and evaluation of performance.

Examples of Duties:

Tower Line Mechanic:

Sorts, lays out, matches, fits, and assembles structural steel members and shapes on the ground.
Erects and places hoisting and rigging equipment required to raise heavy assemblies and materials.
Climbs towers and aligns and bolts assemblies into place.

Occasionally drills, reams, and cuts members for proper fit.

Hoists and installs insulators, hardware, busses, spacers, and other tower line and switchrack appurtenances.

Rigs cable stringing equipment such as sheaves, reel dollies, and tension winches.

Reeves cable through sheaves, forms loops to conform to clearance specifications, brings conductor to proper sag, and secures it to insulator clamps.

Splices conductors.

Strings overhead static wires.

Works from ladders suspended from the structures and boatswain's chairs suspended from cables.

Fabricates and installs guard structures.

Directs activities of helpers on the ground.

May drive a light truck and operate truck mounted power equipment supervisor as an incidental task.

Tower Line Mechanic Supervisor:

Assigns, reviews, and evaluates the work of one or more crews engaged in the above work.

Plans, lays out, and reviews work.

Coordinates crew activities with those of other crews engaged in similar work.

Insures that employees observe proper safety precautions.

Makes oral and written reports regarding work progress, materials, equipment used, and job accidents.

Communicates equal employment/affirmative action information to employees;

Applies job-related criteria in selecting, orienting, assigning, training, counseling, evaluating, and disciplining subordinates;

Assists employees in preparing for promotion as described in the City's Affirmative Action Program;

Both Classes: May be occasionally assigned other duties for training purposes or to meet technological changes or emergencies.

Qualifications: Incumbents must have the following knowledges and abilities:

	Tower Line Mechanic	Tower Line Mechanic Supervisor
Knowledges of:		
Methods and equipment employed in the assembly, rigging, erection and maintenance of high voltage transmission towers, including the operation of gin poles, derricks, cranes, and hoists.	Good	Good
Operation of equipment used to tension electric transmission conductors.	Good	Good
Methods of stringing, splicing, tensioning, and connecting heavy electric transmission conductors and installing insulators, spacers, and other tower line hardware.	Good	Good

Supervisory principles and practices, including planning, delegating, and controlling the work of subordinates.	Good
Techniques of training, instructing, and evaluating subordinate's work performance.	Good
Techniques for counseling, disciplining, and motivating subordinate personnel.	Good
Procedures for grievance handling.	Good
Supervisory responsibility for equal employment opportunity and affirmative action as set forth in the City's Affirmative Action Program.	Good
Effective safety principles and practices.	Good
Memoranda of understanding as they apply to subordinate personnel.	Working
City personnel rules, policies, and procedures.	General

Ability to:

Direct the work of ground helpers.	x	x
Read and interpret construction prints and diagrams.	x	x
Climb steel tower and work at considerable distances above ground.	x	
Understand and carry out instructions.	x	x
Plan and lay out work to utilize time, labor, and materials efficiently.		x
Prepare written reports.		x
Establish and maintain a work environment to enhance both employee morale and productivity.		x

Minimum Requirements:

TOWER LINE MECHANIC: Two years of journey level experience in erecting steel electrical transmission towers or structural steel, in building steel well rigs, or in stringing or maintaining high voltage electrical transmission or distribution lines; or three years of experience as a Line Maintenance Assistant, including one year in assisting in maintaining high voltage electrical transmission tower lines is required for Tower Line Mechanic.

TOWER LINE MECHANIC SUPERVISOR: Four years of experience in a class at the level of Tower Line Mechanic or Line Patrol Mechanic in stringing high voltage electrical transmission lines and erecting steel transmission towers, or in maintaining or repairing such lines and towers; or one year of line supervisory experience at the level of an Electric Distribution Mechanic Supervisor in the maintenance and repair of high voltage electrical transmission lines and steel transmission towers is required for Tower Line Mechanic Supervisor.

License: Both classes: A valid California driver's license is required.

Physical Requirements: Both Classes: Strength to perform average lifting up to 70 pounds; body agility and equilibrium involved in activities such as climbing and balancing under precarious conditions; back and leg coordination involved in activities such as stooping, kneeling, crouching, and crawling to an unusual extent; arm, hand, and finger dexterity with both hands involved in activities such as reaching, handling, and feeling; good speaking ability; and good eyesight.

Those with medical limitations may be able to perform the duties of some positions with reasonable

accommodation. The decision to accommodate someone's limitations will be made on an individual basis and depends on the types of limitations, what the hiring department can reasonably do to accommodate them, and the specific qualifications for the job.

As provided in Civil Service Commission Rule 2.5 and Section 4.55 of the Administrative Code, this specification is descriptive, explanatory and not restrictive. It is not intended to declare what all of the duties and responsibilities of any position shall be.