



CITY OF CALEXICO

CLASS TITLE: WATER TREATMENT PLANT LEAD OPERATOR

MONTHLY: \$5,997 – \$7,290

RANGE: O-33

BASIC FUNCTION:

Under general supervision, operates and maintains pump stations, water treatment plant and facilities to ensure that water quality meets local, state and federal water quality regulations and standards; leads, trains and assigns tasks to subordinate plant operators; and performs related responsibilities as required.

This position reports to the Water System Supervisor. This position leads, coordinates and assigns tasks to the Water Treatment Plant Shift Operators and related positions. This position also may act on behalf of the Water System Supervisor during absences.

REPRESENTATIVE DUTIES:

ESENTIAL DUTIES:

Leads, trains, coordinates and inspects the work of subordinate operators.

Calculates water usage rates and required chemical feed rates for daily cycles.

Takes plant and field samples and performs standardized tests water quality for proper turbidity, color, ph level, temperature and odor.

Monitors portable pressure recorders in distribution system and changes in recording charts.

Logs and checks pump operation hours, water flow levels and chemical usage levels.

Assists in the administration of the Cross-Connection Program.

Investigates and takes corrective measures to solve quality problems.

Responds to emergencies when on 24-hour stand-by duty.

Inspects stations to ensure pumps, motors, valves and alarms are in satisfactory working condition.

Trouble-shoots and resolves varied and complex electrical and mechanical problems.

Applies and monitors application of copper sulfate on water storage ponds and overall pond water levels for the purpose of controlling algae and weeds.

Prepares monthly or periodic governmental water quality reports in the absence of the Water System Supervisor.

August 2019

Uses small hand tools such as saws, pipe wrenches, ratchets, crescent wrenches and channel locks in assisting other Water treatment Plant Operators.

Cleans and maintains water pumps, filters, motors, chlorinators and related equipment.

Contacts local vendors to order parts and supplies.

Maintains and repairs water shed embankments and asphalt collection ponds.

Performs general and emergency maintenance work and assists other water and field maintenance crews as assigned.

Conducts public tours.

OTHER DUTIES:

The preceding activities have been provided as examples of the types of work performed by positions assigned to this job classification. The City reserves the right to add, modify, change or rescind work assignments as needed.

KNOWLEDGE AND ABILITIES:

KNOWLEDGE:

Knowledge in state and federal water treatment regulations.

Knowledge in potable water treatment methods; plumbing and construction mechanics, methods and procedures related to the installation, repair and maintenance of water treatment plant facilities.

Knowledge in complex plant equipment trouble-shooting procedures.

Knowledge in the proper and efficient use of hand and power tools; work safety rules and procedures.

Knowledge in advanced math; supervisory methods and techniques.

ABILITY TO:

Ability and skilled in the operation of small hand and power tools.

Ability and skilled in the operation of a calculator to compute chemical feed rates and basic water flow and consumption rates.

Ability to maintain, inspect and service water treatment plant equipment, facilities and grounds and chlorination equipment.

Ability to lead, train, coordinate and inspect the work of subordinate personnel performing maintenance, testing and repair activities.

Ability to perform consumption computations and accurately project water storage and transmission needs.

Ability to diagnose and solve complex and varied electrical and mechanical problems involving water treatment plant equipment.

Ability to communicate and work cooperatively with co-workers, supervisors, vendors, governmental officials and the general public.

Ability to understand and carry out oral and written instructions.

Ability to prepare laboratory analysis and water treatment records.

Ability to complete monthly and periodic reports in absence of supervisor.

Ability to work in traffic, inside excavated holes, and in intense heat given seasonal conditions. Must be able to work on stand-by status on nights or weekends to perform emergency plant operations or maintenance assignments as needed.

EDUCATION AND EXPERIENCE:

Educational attainment equivalent to graduation from high school. Seventy-two (72) or more hours of specialized instruction in general chemistry, microbiology, hydraulics or a related area. Three (3) or more years of experience in water treatment, maintenance and laboratory analysis work.

LICENSES AND OTHER REQUIREMENTS:

State of California Grade T-4 Water Treatment Plant Operator Certification.
State of California Grade D-4 Distribution Operator Certification
Must possess a valid Class C California driver's license and an acceptable driving record.

WORKING CONDITIONS:

ENVIRONMENT:

Water Treatment Plant environment.
Driving a vehicle to conduct work.
Regular exposure to fumes and odors.
Adverse and extreme weather conditions.

PHYSICAL DEMANDS:

Climbing ladders and steps to storage tanks.
Standing and sitting for extended periods of time.
Lifting, carrying, pushing or pulling heavy objects as assigned by the position.
Bending at the waist, kneeling or crouching to take water samples.
Dexterity of hands and fingers to operate hand and power tools.

Reaching overhead, above the shoulders and horizontally.
Hearing and speaking to exchange information.
Seeing to inspect systems and read a variety of materials.
Walking.

HAZARDS:

Working around and with machinery having moving parts.
Working in cramped or restrictive work chamber.
Working at heights.
Chemical fumes.