

JOB DESCRIPTION

Coachella Valley Water District

Date: July 2016

TITLE: Water Treatment Operator I

SECTION: Treatment

DEPARTMENT: Operations

SRN: A-28

REPORTING RELATIONSHIP:

Supervised by: Crew Chief, Water Treatment

Supervises the following positions: Not applicable

DEFINITION: Under general direction, the core function of this position is to perform the operational activities related to the District's T2 classified water treatment facilities. In addition, this position may be required to work on the District's water distribution system. This position is also expected to perform related work as required with minimum direct supervision.

ESSENTIAL FUNCTIONS:

1. Learn to operate and maintain the District's T2 Classified Ion Exchange Treatment Plants (IXTP) for the removal of Arsenic and Chromium. Perform routine checks on operational processes. Adjust operational parameters to ensure compliance with IXTP permit requirements.
2. Effectively operate, maintain, and repair District chlorination facilities located at wells, booster stations and other locations in the distribution system. Analyze the causes of malfunctions and repair or replace equipment as needed to put the chlorine system back on line with the proper residuals in the distribution system.
3. Check, titrate, and adjust chemical solutions. Make precise adjustments to chemical delivery systems.
4. Stand-by emergency response duties for after hours for treatment plant and chlorine operational emergencies.
5. Performs emergency response procedures for both the 150-pound cylinders and the one-ton containers. Participates on chlorine emergency leak response team as "first man" for both Domestic and Sanitation departments. Uses Repair Kit A, Repair Kit B, and Chlor-A-Safe unit that contains cylinder leaks.
6. Operates and maintains pumps, related flow, and pressure control devices, The Operator may be required to operate storage facilities manually or by using a supervisory control and data acquisition (SCADA) system.
7. Prepare and maintain accurate reports and records related to chlorination procedures when needed. Read and interpret plat books and blue prints.

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ESSENTIAL FUNCTIONS (CONT):

8. Performs construction and maintenance work and other related duties as required. Operate and maintain a variety of hand and air tools.
9. Strictly adheres to District safety practices, procedures, and proper use of personal protective equipment including the self-contained breathing apparatus.

MINIMUM QUALIFICATIONS:

License or Certificates: Valid California Operators license issued by the State Department of Motor Vehicles. Department of Motor Vehicles driving record may influence employment or classification.

And

Possession of a Grade T1 Water Treatment certificate issued by the State Water Resources Control Board.

And

Must attend and pass the 24-hour Hazwoper training within 12 months of appointment to this position.

And

Must obtain Hazmat (X) endorsement within 12 months of appointment to this position.

Experience: Any combination of training and experience, which would likely provide the required knowledge and abilities, is qualifying. A typical way would be to have one-year experience equivalent to Distribution Operator Trainee or Distribution Operator I.

Knowledge:

1. Source Water – watershed protection, wells, groundwater, surface water, reservoirs, raw water storage, and clear well storage.
2. Water Treatment Processes – Jar testing, coagulation, flocculation, sedimentation, filtration, disinfection, demineralization, corrosion control, iron and manganese removal, fluoridation, water softening, and Ion Exchange Treatment processes.
3. Operation and Maintenance – chemical feeders, pumps and motors, blowers and compressors, water meters, pressure gauges, electrical generators, safety, and SCADA.
4. Laboratory Procedures – sampling, general lab practices, disinfectant, alkalinity, pH, Turbidity, specific conductance, hardness, fluoride, color, taste, and odor, dissolved oxygen, algae count, and bacteriological analyses.

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MINIMUM QUALIFICATIONS (CONT.):

Abilities:

1. Communicate effectively both verbally and in writing.
2. Safely and effectively, use hand tools.
3. Perform heavy manual labor as needed.
4. Understand and carry out verbal and written instructions.
5. Work cooperatively with others.
6. Make sound decisions when working independently.
7. Work safely with chlorine gas and chemicals associated with water treatment using a self-contained breathing apparatus.
8. Follow District safety policies and procedures.

PHYSICAL REQUIREMENTS:

1. Will work weekends, evenings, holidays, overtime, and standby when required.
2. Will work in extreme weather conditions including heat and rain. Also will work in areas containing chemicals, dust, fumes, and vapors.
3. Performs pick and shovel work when required.
4. Drives District vehicles to job sites and uses a two-way radio to communicate. Driving: Heavy.
5. Brings equipment and materials to job sites including over rough terrain.
6. May be required to report various district facilities throughout its service area.

See Human Resources for physical assessment form.

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