



CITY OF LONG BEACH CLASSIFICATION SPECIFICATION

TITLE: Water Treatment Operator I - IV

DEFINITION: Under general or direct supervision, constructs, operates, maintains, inspects and repairs water treatment, water supply and water distribution facilities such as wells, Metropolitan Water District (MWD) connections, pumping stations, reservoirs, treatment plants and components.

REPORTS TO: Water Treatment Supervisor; or
Water Treatment Superintendent

DISTINGUISHING CHARACTERISTICS:

Grade Level I: Under direct supervision, performs the entry-level duties of the classification as listed under the example of duties below; and must possess at least a Grade I Water Treatment Operator certificate.

Grade Level II: Under the general supervision, performs the journey-level duties of the classification as listed under the example of duties below; and must possess at least a Grade II Water Treatment Operator certificate.

Grade Level III: Under general supervision, performs the more complex duties of the classification as listed under the example of duties below; must possess at least a Grade III Water Treatment Operator certificate; and may act in a lead capacity.

Grade Level IV: Under general supervision, performs the most complex duties of the classification as listed under the example of duties below; must possess at least a Grade IV Water Treatment Operator certificate; and acts in a lead capacity in operation and maintenance of a water treatment facility, including a plant using advanced treatment processes (e.g. membranes)

EXAMPLES OF DUTIES (including but not limited to):

Grade Level I:

- Under direction, regulates amount of chemicals used within established parameters.
- Washes filterbeds.
- Under direction, maintains and repairs all chlorine feed equipment such as chlorine leak detectors, chlorine analyzers, chlorine evaporators, scales, gas feeding machines and appurtenances.
- Under direction, chlorinates reservoirs, cisterns and main lines utilizing portable chlorination unit.
- Assists in the handling of bulk chemicals such as chlorine gas, caustic soda, polymer, ammonia, zinc sulfate and fluoride and other chemicals used for treatment purposes.
- Skilled in use of safety equipment such as air masks and chlorine emergency leak kits A & B.
- Makes calculations dealing with quantity, rate and volume of water flow.
- Under direction, evaluates system functions through recording and indicating instruments.

- Reads pumping plant and well gauges, records and meters.
- Under direction, lubricates and makes repairs on pumps, motors, control valves and auxiliary equipment.
- Assists in installation and modification of plumbing and piping systems that regulate water flow through the system.
- Performs general maintenance at system facilities such as painting of pumps and appurtenances, floor and equipment cleaning, etc.
- Assists in repairing, maintaining and replacing water system facilities components.
- Operates pneumatic tools and related equipment.
- Observes safety rules and regulations.
- Performs other related duties as required.

Grade Level II:

- Under supervision, controls and regulates flow of water through the Treatment Plant.
- Under supervision, regulates amount of chemicals used within established parameters.
- Calculates chemical dosages.
- Performs physical and chemical laboratory control tests such as color, turbidity, pH, chlorine residual and fluoride control.
- Interprets and correlates meter and chart readings.
- Washes filterbeds.
- Maintains and repairs all chlorine feed equipment such as chlorine leak detectors, chlorine analyzers, chlorine evaporators, scales, gas feeding machines and appurtenances.
- Chlorinates reservoirs, cisterns and maintains lines utilizing portable chlorination unit.
- Maintains and repairs chemical feed equipment and pumps for ammonia, fluoride, caustic soda, corrosion inhibitor and polymers.
- Maintains and repairs air compressors and vacuum pumps.
- Handling of bulk chemicals such as chlorine gas, caustic soda, polymer, ammonia, zinc sulfate and fluoride.
- Skilled in providing training in use of safety equipment such as air masks and chlorine emergency leak kits A & B.
- Regulates and controls reservoir systems and controls the operation of water wells and associated pumping equipment.
- Makes calculations dealing with quantity, rate and volume of water flow.
- Evaluates system functions through recording and indicating instruments.
- Receives and dispatches requests for emergency service assistant.
- Reads pumping plant and well gauges, records and meters.
- Maintains a neat and orderly operator's log of meter readings and operational procedures and changes.
- Lubricates and makes repairs on pumps, motors, control valves and auxiliary equipment.
- Installation and modification of plumbing and piping systems which regulate water flow through the system.
- Performs general maintenance at system facilities, such as, painting of pumps and appurtenances, floor and equipment cleaning, etc.
- Operates and maintains water well rig.
- Operates various mechanized equipment used for installing and pulling pumps and for desanding, reconditioning and maintaining water wells.
- Repair, maintain and replace water facility components.

- Operates pneumatic tools and related equipment.
- Observes proper rigging practices and safety precautions in moving and hoisting heavy equipment.
- Performs other related duties as required.

Grade Level III:

- Operates water system/treatment facilities under guidance by water treatment supervisor or water treatment superintendent.
- Makes decisions to ensure water quality and water pressure throughout the water system are maintained

Grade Level IV:

- Operates water system/treatment facilities, including but not limited to acting in a lead capacity in the operation and maintenance of an advanced water treatment facility utilizing micro filtration, reverse osmosis, and ultraviolet disinfection.
- Makes decisions to ensure water quality in the conventional treatment plant, advanced water treatment membrane facility, and distribution system.

MINIMUM REQUIREMENTS:

Must possess a valid Grade I (or higher) Water Treatment Operator Certificate issued by the State of California Department of Public Health.

One or more years recent experience in the operation and evaluation of water pumping and control systems, including the operation and maintenance of pumps, valves, and related mechanical equipment such as chemical feed machines, chlorinators, and/or other technical precision equipment.

Ability to effectively communicate both orally and in writing.

Possess a valid motor vehicle operator's license.

Willingness to work various shifts, overtime, weekends, holidays, and irregular hours as needed.

HISTORY:

- Class Consolidation and title change, 8/20/97: Water Systems Operator I/II/III, Water Treatment Plant Operator I/II/III, and Utility Plumber Mechanic I/II.
- Amended to add Grade IV, 11/14/01.