

**CLASS SPECIFICATION**

**SAN DIEGO CITY CIVIL SERVICE COMMISSION**

**WATER SYSTEMS TECHNICIAN III - 1013**

**DEFINITION:**

Under general supervision, in a field and/or plant setting, to perform a variety and broad range of complex and dissimilar tasks associated with constructing, repairing, maintaining, and installing various components of water storage, transmission, and distribution systems and filtration plants; may lead and train subordinate level staff; and to perform related work.

**DISTINGUISHING CHARACTERISTICS:**

This is the fully experienced or journey level class in the Water Systems Technician series. Employees in this class are expected to perform the full range of duties assigned with only occasional instruction or assistance as new or unusual situations arise. Positions at this level may be underfilled with Laborers, Water Systems Technicians I, or Water Systems Technicians II in accordance with the City's Career Advancement Program.

**\* EXAMPLES OF DUTIES:**

**As part of a formal rotation and cross training program, performs a variety of the following duties:**

- Perform maintenance, installation, and repair on pressure/water regulating devices such as large and small valves, trestles, flumes, culverts, and other water transmission and ancillary devices, in the field and in the filtration plants;
- Install, maintain, and repair pumps and related piping and non-electrical/ electronic equipment in pump stations, filtration plants, and in the distribution and raw water delivery systems, excluding electrical and electronic devices;
- Repair, maintain, and install meters at commercial, industrial, and residential service connections, including ancillary devices associated with the meters;
- Install, repair, replace, and maintain water mains;
- Install, repair, replace, and maintain service pipes and connections;
- Paint piping, valves, valve covers, etc. with protective coverings to prevent corrosion and other wear;
- Relocate meters and service pipes;
- Install, repair, maintain, and test large and small backflow prevention devices and related equipment;
- Under the direction of lead or supervisory staff, perform maintenance for complex mechanical equipment in the filtration plants, including filtration/mixing equipment, filters, chemical feed equipment, odor removal systems, low pressure boilers, heat exchangers, speed reducers, etc.;
- Repair, maintain, and stock various tools and equipment as part of a toolroom operation, including pneumatic and hydraulic tools, electrical power tools, gas powered tools, and other types of tools;

**\* EXAMPLES OF DUTIES performed by employees in this class. The list may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.**

- Repair, maintain, and install components/facilities associated with and connected to water storage standpipes and above ground reservoirs, including cleaning, painting, repairing, washing, disinfecting, etc.;
- Install, maintain, and repair piping and piping systems;
- Repair, maintain, and install fire hydrants and related equipment/facilities;
- Collect samples of water to be tested after new service installations, etc.;
- Locate underground water, sewer, and related infrastructure in the street and in other locations, prior to digging, to prevent damage to the facilities;
- Use a variety of electronic and computerized listening/sounding equipment to locate leaks within the water distribution system and assign responsibility for repair of the leak, either to private service holder, city forces, or contractors;
- Investigate and/or inspect complaints, route slips, or incidents reported via the work order assignment/SWIM system to determine cause of complaint or problem, and to repair or resolve issue or refer problem;
- Inspect water piping and related facilities installed by non-City forces to ensure work meets established specifications;
- Operate air compressors, pneumatic hammers, power saws, cutters, pipe tapping machines, and other equipment of comparable difficulty;
- Perform water service shut off and restoration duties for residential, commercial, and industrial water customers;
- Perform semi-skilled construction of various water and reservoir related facilities such as boat ramps and docks, comfort stations, sidewalks, patron facilities, etc.;
- Operate vehicles requiring a Class C or Class B license;
- Assist skilled Cement Finishers with cement finishing; perform hot patch and asphalt replacement and repair; place barricades around work in progress;
- Remove concrete, roadways, and sidewalks by the use of various types of pneumatic equipment such as jackhammers, etc.;
- Complete all SWIM/work order related paperwork as person in charge on a crew and maintain other logs of work completed and in progress; rotate person in charge duties among peer crew members;
- Direct and train sub-journey and trainee level subordinates on crews;
- Perform related tasks.

#### **MINIMUM QUALIFICATIONS:**

Please note: the minimum qualifications stated below are a guide for determining the education, training, experience, special skills, and/or license which may be required for employment in the class. These are re-evaluated each time the position is opened for recruitment. Please refer to the most recent Job Description for updated minimum qualifications: <https://www.governmentjobs.com/careers/sandiego/classspecs>.

Three years of full-time experience constructing, repairing, and maintaining various components of water, other similar types of pipeline (2" or larger), distribution, collection, storage, filtration, transmission, or related systems. Qualifying experience must include maintenance and repair work on two or more of the following: valves, pumps, backflow prevention devices, meters, water or sewer mains, water storage systems, water service or sewer collection piping, reservoir, or related facilities. A valid Grade D2 or higher Water Distribution Operator Certificate issued by the State of California. A California Class A or B Driver's License, AND a valid California Department of Motor Vehicles (DMV) medical certificate dated within the last two years are required at the time of application. Possession of a valid California Class C Driver's license may be required.