

IMPERIAL COMMUNITY COLLEGE DISTRICT

CLASS TITLE: WATER SYSTEMS TREATMENT SPECIALIST

BASIC FUNCTION:

Under direction of the Director of Maintenance and Operations, perform technical and skilled work in the inspection, service and repair of the District's wastewater treatment plant and water systems plant in order to produce safe drinking water and properly dispose of domestic waste; ensure compliance with applicable health and safety laws and regulations related to water systems; provide a safe and clean swimming pool for athletic and recreational activities.

REPRESENTATIVE DUTIES:

Inspect, disassemble, maintain, repair and service equipment at the District wastewater treatment plant and water systems plant; diagnose malfunctions and take appropriate remedial action; recommend system alterations or improvements as needed.

Determine necessary parts for maintenance and repairs; order parts for equipment repairs, modifications and improvements; prepare estimates and maintain records related to materials purchased.

Test water for a variety of factors and treatment parameters including turbidity, Ph balance, biochemical oxygen demand, filterable and non-filterable residue, suspended solids, copper and lead content, temperature, pressure, flow rates, taste, color, alkalinity, hardness and other factors as required; based on laboratory test results, calculate chemical dosages, filter rates, residuals and other operational controls; collect samples for laboratory analysis by County health officials as necessary.

Prepare and maintain records required to prepare daily, weekly, monthly, quarterly and annual reports for distribution to appropriate regulatory agencies; assure proper documentation is submitted to obtain required permits.

Assure compliance with a variety of State, federal and local laws, regulations and ordinances regarding water quality for domestic use, wastewater treatment and related activities.

Inspect, service, maintain and operate pumps, filters, valves, lines, switches, gauges, meters, reservoirs, storage tanks, automated electrical controls, blowers, lift station, belts and motors, and related equipment; install and replace tubing and pipe as needed; replace damaged or malfunctioning parts; change filters, oil and clean equipment.

Develop and implement preventive maintenance schedules and respond to emergency situations as required.

Plan and schedule water treatment operation and maintenance based on water parameter trends.

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Operate wide variety of hand and power tools and equipment used in water treatment such as electrical testers, precision scales, incubator, Ph meter, temperature probe, microscope, mixers, heaters, laboratory glassware and related equipment.

Maintain the campus memorial fountains and swimming pool in clean and sanitary condition; test pool water and add chemicals as appropriate; skim, brush and vacuum pool on a regular basis; assure proper operation of pool pumping system, water heater and filters.

Train and provide work direction to student workers and others as assigned.

Perform related duties as assigned.

KNOWLEDGE AND ABILITIES:**KNOWLEDGE OF:**

Methods, equipment, tools and materials used in the installation, repair and maintenance of water treatment systems.

Diagnostic procedures used in troubleshooting malfunctioning equipment.

Water testing procedures and equipment used to detect and measure chemical content, contaminants and other parameters.

Activated sludge, extended aeration, aerobic digestion and sludge disposal procedures.

Recordkeeping techniques.

Laws, regulations and ordinances related to water treatment and water quality.

Health and safety regulations.

Chlorination and swimming pool maintenance procedures.

Proper methods of storing equipment, tools, materials and supplies.

ABILITY TO:

Collect, interpret and record a wide variety of data for laboratory and chemical analysis.

Operate hand and power tools, laboratory equipment and other devices used in water treatment and water systems maintenance.

Perform skilled maintenance duties in the installation, maintenance, inspection and repair of District wastewater treatment and water systems equipment.

Perform preventive maintenance and routine servicing of equipment.

Read work plans, diagrams, specifications and technical procedures.

Work independently with minimal supervision.

Communicate effectively with others.

Lift objects weighing up to 75 pounds.

Provide work direction to others as assigned.

Maintain records and prepare reports.

Maintain a swimming pool in clean and sanitary condition.

Assure compliance with applicable laws and regulations at all levels of government.

Observe health and safety regulations.

EDUCATION AND EXPERIENCE: Any combination equivalent to: two years of college level coursework which included 15 semester units of basic science and two years of experience in the operation and maintenance of a waste water treatment plant.

LICENSES AND OTHER REQUIREMENTS: Certification by the State as a Wastewater Treatment Plant Operator III is required at the time of hire. If recruitment efforts are unsuccessful in obtaining the services of a level III operator, the District may select an applicant to work in a trainee capacity under the supervision of a consultant who has the proper certification. Salary during the training period will be commensurate with the level of certificate held. Certification for Laboratory Technician, Grade III Water Plant Operator and Mechanical Technologist may be required at time of hire.

PHYSICAL DEMANDS: Must stand for long periods of time; use hands to finger, handle, or feel objects, tools or controls; reach with hands and arms; bend, stoop, kneel, crouch or climb; speak clearly and distinctly to provide information to others; and hear and understand voices over telephone and in person. Must regularly lift, carry and/or move objects weighing up to 50 pounds. Must go up and down steps up to 20 feet high. Must see to perform duties including the testing of water quality.

WORK ENVIRONMENT: Duties are typically performed in an indoor lab and outdoor environment. While performing the duties of this classification, the employee is frequently exposed to adverse weather conditions, chemical fumes and noise from equipment.