

**VALLEY CENTER MUNICIPAL WATER DISTRICT**  
**SENIOR PUMP FACILITIES TECHNICIAN**

**DEFINITION**

Under general direction of the Pumps and Motors Supervisor, incumbents perform the full range and the most complex duties related to installing, maintaining, inspecting, testing and repairing pumps, electric motors and internal combustion engines, valves, and related mechanical equipment for the District.

**CLASS CHARACTERISTICS**

Incumbents are fully competent and are expected to perform the full range and the most complex duties related to repairing and maintaining pumps and electric motors, repairing and maintaining combustible engines and repairing wastewater reclamation facilities. Incumbents are crew leaders and as such are responsible for assigning and monitoring work, ensuring safety standards and procedures are followed, preparing reports, maintaining records and assuming the responsibilities of the supervisor in his/her absence.

Incumbents may work a varied work week, different shifts, stand duty and must be able to respond to emergencies as deemed necessary by the District, and may be required to work in wastewater facilities to include collection, distribution and reclamation.

**ESSENTIAL DUTIES**

*The duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related, or a logical assignment to this position.*

Serves as a crew leader which includes: planning, assigning and monitoring work; ensuring safety standards and procedures are followed; maintains applicable records and prepares a variety of reports; trains lower level staff on work practices and procedures; and, assumes the responsibilities of the supervisor in their absence.

Evaluates the maintenance needs and requirements of the District's pumps, motors, electrical equipment and related mechanical equipment; performs both minor and major maintenance and repair work on pumps, electric motors, electrical panel and internal combustion engines, and related mechanical equipment; as defined in the District's qualification requirements for Energized Electrical Work, ensures the use of safety equipment and precautions related to the work being performed, particularly when dealing with live electrical circuits.

Troubleshoots and repairs, disassembles and removes pumps, motors, internal combustion engines and similar equipment for major maintenance and reinstalls as necessary; diagnoses mechanical and electrical problems, as defined in the District's qualification requirements for Energized Electrical Work, ensures the use of safety equipment and precautions related to the work being performed, particularly when dealing with live electrical circuits, and uses shop equipment to fabricate and repair parts.

Sets up and operates rigging equipment to move heavy parts or equipment.

Requests required materials, supplies and equipment.

Following an established routine, inspects reservoirs, pumps, electrical panels, motor engines, valves and similar equipment on site and performs routine cleaning and maintenance as required.

Reads charts, gauges and maintains logs; installs and replaces varied equipment at production sites; maintains sites in a clean and orderly condition; cleans and repairs reservoirs.

Fabricates less complex parts and fittings; makes assemblies and units from drawings, specifications, sketches or oral descriptions; makes sketches of work to be performed.

Operates boom truck; uses a variety of equipment and tools including hydraulic press, shop crane, bench grinder, drill press, oxy/acetylene torch and others; drives various vehicles; uses other hand and power tools and equipment related to the trade.

Troubleshoots and repairs motor control panels and systems, VFDs, security cameras, lighting and convenience systems, back-up generation systems, level sensors, and/or other related equipment.

Keeps records of all repairs and inventory of parts for equipment; makes oral and written reports of work performed; observes proper safety precautions, particularly in dealing with hazardous chemicals such as chlorine; reads drawings and blueprints.

Observes proper safety precautions, particularly in dealing with hazardous chemicals such as chlorine; ensures the use of safety equipment and precautions related to the work being performed, particularly when dealing with live electrical circuits; reads drawings and blueprints.

Performs other duties as assigned.

### **QUALIFICATIONS GUIDELINES**

**Knowledge of:** Water distribution systems; water operations, including pumps, motors, engines, valves and chlorinators; preventative maintenance practices and procedures as applied to water distribution systems; methods, materials, tools and equipment used in the installation, maintenance, repair and operation of water distribution pumps, motors and associated equipment; operation and maintenance of a wide variety of shop equipment, hand, power and motorized tools and machinery used in the work; shop mathematics; applicable laws and regulations; National and California Electrical Codes and Safety Codes; principles and methods; application of electrical theory as used in the installation, maintenance, troubleshooting and repair of electrical systems up to 600 volts; District policy on live electric circuits; telephone and radio communications; using computers and related software applications; basic first aid and CPR techniques; supervisory principles and practices; and, safe work methods and safety precautions related to the work.

**Ability to:** Coordinate crew assignments with those of other departments; instruct and direct the work of less skilled employees; perform varied mechanical maintenance and repair work; diagnose problems and determine appropriate action; interpret and work from sketches, blueprints and specifications; estimate labor and materials; operate and maintain tools and equipment used in the work; identify and implement effective courses of action to complete assigned work; maintain, troubleshoot, repair, inspect, test and install a variety of electrical components and equipment; perform lockout tagout procedures for electrical equipment; maintain accurate records of work performed; determine proper shut-down procedures for pump, motor, valve and engine operations; communicate clearly and concisely, both orally and in writing, and be understood while using the District's radio communication system; and, establish and maintain effective working relationships with other employees and those contacted in the course of the work.

### **EDUCATION, EXPERIENCE, LICENSES AND CERTIFICATIONS**

**Education:** Equivalent to a High School Diploma.

**Experience:** A minimum of two years of experience as a Pump and Motor Technician III, or its equivalent; or an equivalent combination of education and experience sufficient to successfully perform the essential duties of the job such as those listed above.

**Licenses and Certifications:** California Class C Driver's License; State Water Resources Control Board Water Distribution Operator's Certificate, Grade D3.

**PHYSICAL DEMANDS AND WORK ENVIRONMENT**

*The physical demands and work environment described here are representative of those that must be met by an incumbent to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

**Physical Demands:** While performing the duties of this job, the incumbent is regularly required to use hands and fingers to grasp, feel, and reach; climb, balance, stoop, kneel, crouch, crawl, talk, hear, and smell. The incumbent frequently is required to sit, stand and walk. The incumbent must regularly lift and/or move from 25 to 50 pounds and occasionally lift and/or move up to 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus. May be required to medically qualify and wear a District approved respirator.

**Work Environment:** While performing the duties of this job, the incumbent is regularly exposed to high, precarious places; fumes or airborne particles; outside weather conditions; and risk of electrical shock. The incumbent is frequently exposed to wet and/or humid conditions and moving mechanical parts. The incumbent is occasionally exposed to vibration. The noise level will range from moderate to very loud.

POSITION DESCRIPTION APPROVED:

  
General Manager  
Date