

PARKS AND AQUATICS MAINTENANCE TECHNICIAN

JOB DESCRIPTION

Classification Responsibilities: A Parks and Aquatics Maintenance Technician is responsible for performing journey-level work that involves installing, maintaining, inspecting, and troubleshooting small and large pumps, vertical turbine pumps, motors up to 100 HP, and related equipment (example: hydraulics, electrical components, etc.) at parks, basins, aquatics facilities, and park decorative fountains, ball fields, and lakes. Duties involve installing, altering, maintaining, and repairing electrical control systems, including 120/240 volt and/or 277/480 volt systems, ball valves, butterfly valves, check valves, clay-valves, master valves, filtration systems, aerators, and air compressors; checking motor amp draws; working with single and three phase electrical; pulling and replacing small and large pumps, motors, compressors, and related equipment; replacing shaft seals, impellers, and bearings; monitoring and repairing pool-filtering equipment including water pumps, chemical dispenser systems, and chlorine gas chlorinators; testing and maintaining backflow valves, including certified testing; performing construction related work including constructing concrete forms, pouring, and finishing concrete; and performing and maintaining preventative maintenance activities and records. This class is responsible for performing related duties as required.

Distinguishing Features: An employee in this class is required to use appropriate safety equipment and follow safety procedures in performing assignments. The employee may be assigned to a shift which includes nights, weekends, and holidays, and is subject to stand-by during peak use. This class is supervised by the Parks Maintenance Supervisor or Parks and Community Facilities Maintenance Foreman who reviews work through work orders, conferences, and spot-checking for results achieved. This class works with a high degree of independence which requires good judgment and initiative in determining the methods and procedures that will be used for each job or project. Employees in this class will be assigned to a seven-day rotational call-out. This class is FLSA nonexempt.

QUALIFICATIONS

Employee Values: All employees of the City of Mesa are expected to uphold and exhibit the City's shared employee values of Knowledge, Respect, and Integrity.

Minimum Qualifications Required. Any combination of training, education, and experience equivalent to graduation from high school or GED. Considerable (3 - 5 years) work experience in the performance of journey-level pump mechanic work, including experience in water pump operation and/or water delivery systems or related equipment or systems.

Special Requirement. Must possess a valid Class D Arizona Driver's License by hire or promotion date.

Substance Abuse Testing. None.

Preferred/Desirable Qualifications. Commercial level experience in pump maintenance (small and large pumps, vertical turbine pumps) and electrical controls (24V to 480V systems); work experience in the performance of journey-level pump mechanic work or experience with medium to low voltage pump station controls; variable frequency drives; and programmable logic controllers. Successful completion of a four (4) year electrical apprenticeship or trades program.

ESSENTIAL FUNCTIONS

Communication: Communicates verbally and in writing with City employees and management to explain the status of a job or give instructions. Provides information to contractors and vendors to ensure the maintenance and repairs are performed correctly. Develops a materials list through designing and planning of a job in order to verify projects and other appropriate materials needed. Other communication involves coordination of work with others, resolution of complaints, status of work, and expenditures. Maintains safety logs and reports for tracking purposes.

Manual/Physical: Maintains, repairs, and troubleshoots pump systems, small and large motors, and related equipment. Operate ammeters, ohm meters, voltage meters from 24 volt to 480 volt, specialized data logging instruments, power monitoring meters, thermal imaging instruments and vibration monitors. Safely operates a motor vehicle requiring a standard Arizona Driver's License such as a pickup truck to travel to job site, purchase and transport materials and supplies, and haul equipment. Moves heavy objects weighing over 100 pounds such as small and large pumps and motors, with the assistance of an aide. Mixes concrete and pours, tamps, screeds, floats, and trowels concrete for pads and slabs. Uses appropriate tools to install, rebuild, and replace equipment. Works with potentially hazardous materials requiring the use of specialized protective equipment. Operates power-driven machinery such as a jackhammer and concrete saw to complete a variety of concrete jobs. Operates mechanical equipment such as forklift and tractor. Bends and stoops repeatedly to repair large and small pumps, motors, and chemical feeders. Performs routine service, and maintenance, work on small and large pumps and motor components related to aquatics facilities, park decorative fountains, and lakes. Maintains tools and equipment. Works in a variety of weather conditions. Listens for radio communication and detects malfunctioning equipment. Meets scheduling and attendance requirements.

Mental: Monitors inventory and notifies supervisor as supplies and parts are needed. Maintain inventory and documentation of all equipment. Reads and interprets blue prints, diagrams, sketches, specification sheets, and electrical drawings. Learns new techniques for installing and maintaining pump systems and related equipment, through classroom training and on-the-job training. Prioritizes work assignments.

Knowledge/Skill/Abilities:

Knowledge of:

installation, maintenance, and repair procedures for pumps, valves, rapid mixers, drive units, chlorinators, and other equipment associated with water collection system;
testing procedures for backflow valves;
basic methods and practices used in the electrical trades;
occupational hazards and safety procedures associated with mechanical maintenance and chlorine gas;
plumbing methods, practices, and materials;
concrete repair; and
blue stake laws and underground utility identification practices.

Skill in the use and care of hand tools necessary to perform various mechanical installation, maintenance, and repair tasks.

Ability to:

follow oral and written instructions;
learn to operate a variety of equipment;
maintain, repair and diagnose any problem affecting the entire pump station system;
prioritize schedule and work tasks and complete work within specified time periods and deadlines;
prepare written reports and documentation of work;
read and interpret blueprints and other working drawings;
recognize safety hazards; and
establish and maintain effective working relationships with coworkers and supervisors.

The duties listed above are intended only as general illustrations of the various types of work that may be performed. Specific statements of duties not included does not exclude them from the position if the work is similar, related, or a logical assignment to the position. Job descriptions are subject to change by the City as the needs of the City and requirements of the job change.

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INCREMENTS 44-200

PAY GRADE: 46

IND-9102

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