

WATER PLANT MAINTENANCE SPECIALIST II

JOB DESCRIPTION

Classification Responsibilities: The Water Plant Maintenance Specialist II is responsible for performing specialized, journey-level work that involves installing, maintaining, and repairing water treatment equipment and facilities, water pump systems, or wastewater pump stations. Incumbents may be assigned to the Water Supply Unit or the Wastewater Collections Unit. An employee in this class performs daily activities and assists in system maintenance work at water supply or wastewater collection facilities. Assigned tasks increase in scope and difficulty as the incumbent demonstrates the ability to perform the full-range of duties respective of the journey-level Water Plant Maintenance Specialist II class. Some examples of duties required and performed include: performing plumbing work including cutting, threading, and welding pipe; installing pumps, compressors, motors, and related equipment; lubricating bearings; replacing seals, gaskets, springs, and gears; installing, maintaining, and repairing water treatment or wastewater collection lift stations and odor control equipment and facilities including, but not limited to: vertical turbine, split case or submersible pumps, compressors, pipes, mixers and aerators, chlorine (on-site generation or gaseous) equipment, Ferrous Chloride/Peroxide or Calcium Nitrate chemical injection equipment, valves, gear boxes, tanks, and swing arms, etc. These duties may vary depending on assignment to the Water Supply Unit or the Wastewater Collections Unit. This class performs related duties as required.

Distinguishing Features: This class is distinguished from the Water Plant Maintenance Specialist III or Water/Wastewater Utility System Crew Leader class by its responsibility for performing journey-level water treatment, water supply, or wastewater collection facilities maintenance duties with limited lead responsibilities. Job performance is monitored and evaluated by the onsite observation of work in progress, finished projects, and meetings to discuss strategy and other challenges while performing routine duties. Job hazards may include frequent exposure to a variety of weather conditions, chlorine gas, ferrous chloride, peroxide, calcium nitrate, raw sewage, and/or toxic chemicals associated with water treatment, high-voltage lines, and equipment. An employee in this class is required to use appropriate safety equipment and follow safety procedures in performing assignments. Employees may progress to this class from a Water Plant Maintenance Specialist I by noncompetitive promotion upon meeting the specific criteria-based promotion requirements. This class is subject to emergency call-out and must be willing to work overtime and scheduled stand-by as required. This class is provided lead direction by the Water Plant Maintenance Specialist III or Water/Wastewater Utility System Crew Leader with supervisory responsibility provided by the Water/Wastewater Field Supervisor and/or the Water/Wastewater System Superintendent. 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 education, training, and experience equivalent to graduation from high school or GED. Considerable (3 - 5 years) work experience in performing journey-level repair or maintenance of pumps, wastewater odor control and/or lift station equipment, water or wastewater plant equipment, water supply system equipment, or other mechanical or manufacturing equipment.

Special Requirements.

Wastewater Collections Unit Assignment: Must possess a Grade II (or higher) Wastewater Collection Operator certification from the Arizona Department of Environmental Quality (ADEQ) by application date. Certifications through reciprocity must be obtained within three months of hire or promotion. Must possess a valid Arizona Driver's License and a valid Arizona Class A Commercial Driver's License (CDL) with Tanker endorsement by application date. Must possess a Structural Pest Control Applicators License by application date. Must meet the qualifications to wear a tight fitting respirator by passing a medical evaluation in accordance with Code of Federal Regulations (CFR) 1910.134 by application date and must maintain certification. Work is physically demanding, and the employee must be capable of frequent lifting and carrying of heavy (50 - 75 pounds) equipment and materials, with an aid to assist, and considerable bending, stooping, and climbing associated with working in wastewater collection systems and confined spaces. This class shall be responsible for acquiring a minimum of 30 professional development hours (PDHs) every three years to maintain their ADEQ Certification. Shall be responsible for obtaining six continuing education units (CEU's) annually to maintain Structural Pest Control Applicators License. The incumbent must also obtain a 40-hour HazWoper Certification as per Occupational Safety and Health Administration (OSHA), and must attend a refresher course annually to maintain certification.

Water Supply Unit Assignment: Must possess Grade I (or higher) Water Treatment Plant Operator and Water Distribution Operator certifications from the ADEQ or equivalent certifications from another state through reciprocity with Arizona by application date. Certifications through reciprocity must be obtained within three months of hire or promotion. Must possess a valid Arizona Driver's License and a valid Arizona Class B CDL or Commercial Learner's Permit (CLP) with HazMat endorsement by hire date. CLP holders must successfully complete the City's Entry Level Driver (ELD) training program, the Third Party Examiner (TPE) administered skills (driving) test, and obtain a valid Arizona Class B CDL within 150 days of hire or promotion date. Must meet the physical standards and requirements for the wearing of an Air Purifying Respirator (APR) respiratory protection equipment. Must meet the qualifications to wear a tight fitting respirator by passing a medical evaluation in accordance with CFR 1910.134 by hire or promotion date and must maintain certification. This class shall be responsible for acquiring a minimum of 30 PDHs every three years to maintain their ADEQ Certification. The incumbent must also obtain a 40-hour HazWoper Certification as per OSHA, and must attend an annual refresher course annually to maintain certification.

Substance Abuse Testing. This class is subject to Department of Transportation (DOT) Federal Motor Carrier Safety Administration (FMCSA) drug and alcohol testing as outlined in 49 CFR Part 382.

Preferred/Desirable Qualifications. None.

ESSENTIAL FUNCTIONS

One position may not include all of the essential functions, knowledge and abilities listed, nor do the listed examples include all the knowledge and abilities which may be found in positions of this classification.

Communication: Communicates verbally and in writing with City employees, management, and the public in order to provide information on water treatment operations, water distribution, and sewage collections systems. Provides information to contractors and vendors to ensure that maintenance and

repairs are performed correctly. Maintains safety logs and reports for tracking purposes and provides this information to Safety Services.

Manual/Physical: Water Supply incumbents operate City vehicles such as a 1-ton truck to transport hazardous chemicals requiring a HazMat endorsement and a boom or dump truck requiring a valid Arizona Class B CDL in order to maintain the Water Supply facilities, including booster stations, well sites, and Pressure Reducing Valve stations. Wastewater Collection incumbents operate City vehicles requiring a valid Arizona Class B CDL with Tanker endorsements. Wears a respirator in order to comply with safety standards when working in confined spaces and/or around toxic chemicals. Paints various pieces of equipment, stairways, shelves, cabinets, etc., using epoxy, enamel, and latex paints. Pushes, pulls, carries, and lifts objects weighing up to 100 pounds with the assistance of a handcart or power equipment. Works at heights of up to 150 feet and depths of 50 feet. Observes construction for deep wells, sewage lift stations, odor control facilities, and booster stations. Follows construction plans and blueprints. Installs, maintains, and/or replaces pumps at site specific facilities. Operates a variety of construction equipment including a backhoe, electric hoist, trencher, forklift, welder, cutting torch, oxyacetylene welding torch, welding machine, hot air gun, pipe threader, water main tamper, paint sprayer, hand tools, and other related tools in order to complete maintenance and repair duties. Changes chlorine bottles at automatic chlorinator sites, lays conduit and pulls wire for electrical needs. Applies welding and metal fabricating techniques and procedures to the maintenance and repair of equipment, the installation of sight gauges on tanks, and to construct safety guards, supports, kick plates, platforms, shelving, cabinets, work tables, etc. Performs pipefitting and plumbing by cutting, threading, and welding pipe. Installs, maintains, repairs, and replaces pumps, compressors, motors, and related equipment. Performs preventive maintenance tasks, such as changing oil, lubricating bearings, replacing oil seals, gaskets, springs, gears, and related maintenance work. Mixes and pours concrete for pump bases and pipe support. Reads meters in order to report usage for billing. Installs, maintains, and repairs water valves. Meets scheduling and attendance requirements.

Mental: Monitors inventory and notifies supervisor as supplies and parts are needed. Learns plant maintenance operation and new repair techniques through on-the-job training. Reads and interprets water and sewer plat maps. Learns new techniques for installing and maintaining plant and water supply equipment, including pumps, variable speed drives, and related equipment through classroom training and on-the-job training.

Knowledge/Skills/Abilities:

Knowledge of:

oxyacetylene welding techniques and procedures;
stainless steel, aluminum, and Polyvinyl Chloride (PVC) welding, and metal fabricating techniques and procedures;
American Welding Society (AWS) and American Society of Mechanical Engineers (ASME) codes and requirements;
installation, maintenance, and repair procedures for pumps, valves, rapid mixers, drive units, chlorinators, and other equipment associated with a water treatment plant or water supply and sewage collection system;
pipefitting techniques and procedures;
methods, practices, and materials used in the mechanical trades;

occupational hazards and safety procedures associated with confined space entry, mechanical maintenance, welding, fluoride, methane gas, hydrogen sulfide, ferrous chloride, and chlorine gas; water and wastewater flow meters; plumbing methods, practices, and materials; basic methods and practices used in the electrical trades; carpentry and painting techniques and practices; concrete repair; and personal computers and related software, plant Supervisory Control and Data Acquisition (SCADA), and Computer Maintenance Management Software (CMMS).

Skill in:

the use and care of an oxyacetylene welding torch, a welding machine, hot air gun, propane torch, drill press, band saw, metal grinder, paint sprayer, and other equipment necessary to perform assigned tasks; the use of precision measuring equipment, including micrometers, dial indicators and strain gauges; and the use and care of hand tools necessary to perform various mechanical installations, maintenance, and repair tasks.

Ability to:

use a respirator;
follow oral and written instructions;
learn to operate a variety of equipment, including an overhead crane, forklift, and boom truck; 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.

Revised 7/19
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CS4119.DOCX
EEO-SCW
JOB FCTN-TEC
INCREMENTS 63-200

PAY GRADE: 44
IND-7520
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