

City of Fort Worth, Texas

Job Description

Classification Title	Senior Water Systems Mechanic		
Job Code:	ST5350	Job Family:	Service Trades
Pay Grade	510	Date Reviewed:	07/17/2015
FLSA Status	Nonexempt	Date Revised:	05/22/2023

GENERAL SUMMARY

Performs complex skilled work related to the maintenance, replacement, repair or overhaul of stationary engines and other major equipment at water pumping and treatment facilities. Supervises and assists maintenance staff in repair, inspection, preventative maintenance and troubleshooting tasks on freshwater and wastewater treatment equipment.

ESSENTIAL DUTIES & RESPONSIBILITIES

The intent of this job description is to provide a representative summary of the major duties and responsibilities performed by incumbents of this job. Incumbents may be requested to perform job-related tasks other than those specifically presented in this description.

1. Troubleshoots and performs complex technical repairs on major machinery and mechanical equipment at the city's water or wastewater treatment plants and facilities.
2. Maintains and operates electrical distribution systems and generator distribution stations.
3. Adheres to schedules and methods for providing water/wastewater plant maintenance services.
4. Assists installation of machinery and equipment. Operates and coordinates heavy equipment, such as boom trucks, front-end loaders, dump trucks, cranes and flatbed trucks.
5. Participates in technical and complex tasks including communicating with salespersons, outside vendors and contractors in problem solving, repair and modification of plant equipment.
6. Monitors inventory of materials and equipment. Recommends and specifies products needed and requisitions approved equipment and maintenance supplies.
7. Participates in training, assigning, scheduling, monitoring and evaluating lower level water systems mechanical and maintenance staff.
8. Creates work orders and project tickets using system software.
9. Ensures a safe working environment. Provides safety trainings regarding procedures, rules, precautions and regulations.
10. Responds to hazardous chemical events as necessary.
11. Performs other related duties as required.

12. Adheres to assigned work schedule as outlined in the Department and City attendance policies and procedures. Ensures all behaviors comply with the City's Personnel Rules and Regulations.

KNOWLEDGE, SKILLS & ABILITIES

- **Knowledge of:**
 - Engine operation, repair, and principles including large stationary engines.
 - Materials, methods, practices, and equipment used in water or wastewater system operations.
 - Operational characteristics, services, and activities of a water or wastewater system maintenance program.
 - Principles of training and monitoring lower level staff.
 - Interpret and explain applicable policies and procedures.
 - Advanced methods and techniques of maintaining and repairing water or wastewater systems.
 - Occupational hazards and standard safety precautions.
 - Pertinent Federal, State and local laws, codes and regulations.
 - MSDS (Material Safety Data Sheets).
 - Chemical spill containment and clean up.
 - OSHA (Occupational Safety Hazard Administration) regulations.
 - Railroad safety practices, procedures and equipment.
- **Skill in:**
 - Operating assigned equipment.
 - Planning and prioritizing.
 - Observation and decision-making.
 - Organization and time management.
- **Ability to:**
 - Maintain and repair water or wastewater treatment machinery, equipment and controls.
 - Use and operate hand tools, mechanical equipment and power tools and equipment required for working in a safe and efficient manners.
 - Communicate clearly and concisely, both orally and in writing.
 - Establish and maintain effective working relationships.
 - Read and interpret Blueprints.
 - Troubleshoot and diagnose equipment and machinery problems.
 - Maintain pumps and motors.
 - Use and maintain integrity testing equipment.

MINIMUM JOB REQUIREMENTS

HS diploma/GED and three years of responsible experience in water/wastewater plant maintenance or related field.

OTHER REQUIREMENTS

Valid Texas driver's license.

WORKING CONDITIONS

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Depending on assignment, positions in this class typically require touching, talking, hearing, seeing, grasping, standing, stooping, kneeling, crouching, reaching, walking, repetitive motions, climbing, balancing, pushing, pulling and lifting; depending on assignment. Incumbents may be exposed to moving mechanical parts, odors, dusts, poor ventilation, chemicals, oils, extreme temperatures, inadequate lighting, intense noises, gases, vibrations, chemicals, oils and workspace restrictions.

PHYSICAL DEMANDS

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

Heavy Work – Depending on assignment, positions in this class typically exerting up to 100 pounds of force occasionally, up to 50 pounds of force frequently, and/or up to 20 pounds of force constantly having to move objects.