



Job Description			
Job Title:	Maintenance Mechanic II	Pay Grade:	14
Department:	Maintenance	Effective Date:	01/2023

GENERAL PURPOSE

Performs a variety of master level complex skilled and technical duties related to the daily maintenance, troubleshooting, and repair of treatment plant facilities, equipment, and heavy machinery including, complete rebuilding and fabrication of treatment plant process equipment, and installation of in-house facility and equipment upgrades, all to insure maximum reliability and optimum performance.

SUPERVISION RECEIVED

Works under the general supervision of the Plant Superintendent. Receives immediate supervision from the Operations and Maintenance Leadworker.

SUPERVISION EXERCISED

May provide general direction to less experienced plant operators and Maintenance Mechanic I workers on a project-by-project basis or when assigned as a project supervisor.

ESSENTIAL FUNCTIONS

GENERAL: Performs master level mechanics and maintenance to assure proper treatment equipment operation. Performs and assures the proper maintenance and repair of step screens; wash presses; grit removal system; screw conveyors; Bridge cranes; various types of pumps; blowers and compressors; clarifier mechanisms; chlorinators; biotower and trickling filter distributors; cogeneration engines; gravity belt thickeners; rotary drum thickeners; belt presses; and trucks, loaders, compost turners, and backhoes.

MAINTENANCE: Greases; lubricates; and services all moving parts and equipment; Performs routine vibration monitoring, shaft alignment, and other tasks in accordance with sound predictive maintenance techniques. Preloads and aligns bearings and equipment. Troubleshoots and adjusts treatment process equipment such as chopper pump cutter bars, pump wear rings, chain and belt tensions, HVAC units and roof fans as required to maintain efficient and reliable process equipment operations.

REPAIR: Uses various precision measuring instruments, hand, power, and air tools in replacing or repairing chains, sprockets, shafts, rakes, screws, sleeves, bearings, wear-rings, and other mechanical parts; tears down and rebuilds various pumps; blowers, presses; changes bearings, pistons, shafts, eccentrics and other equipment parts.

Ability to troubleshoot root cause of failures; makes repairs correctly in order to improve machinery reliability.

OTHER: Modifies, upgrades, and fabricates mechanical equipment for treatment processes to upgrade and keep facility treatment equipment operating at its peak with focus on reliability. Performs general plumbing and pipe fitting.

Performs other duties and tasks as assigned.

MINIMUM QUALIFICATIONS

1. Education and Experience:

A. Graduation from high school;

AND

B. Graduation from an accredited Technical College in one of the following areas,

- Diesel or auto mechanics
- Welding and fabrication
- Compressor, pump or blower reliability

C. Minimum of six (6) years successful experience in wastewater treatment plant equipment maintenance and repair, heavy equipment maintenance and repair, industrial pump and blower maintenance and repair.

OR

D. An equivalent combination of education and experience.

2. Required Knowledge, Skills, and Abilities:

Ability to communicate effectively, verbally and in writing; ability to develop working relationships with supervisors and co-workers. Considerable knowledge of plant policies and procedures. Must be a self-starter, know and understand safety policies and procedures, promote a safety culture, possess a thorough knowledge and demonstrate the ability to effectively troubleshoot and repair mechanical equipment. Thorough knowledge of the fundamentals of machinery operation and technical competency for specific treatment plant equipment in operation at the District's facilities including its maintenance, repair, and how to perform complete rebuilds. Ability to perform routine maintenance and repairs on heavy equipment and cogen engines.

Ability to understand and interpret blueprints, schematic drawings and maintenance manuals; ability to make accurate decisions in emergency situations; ability to perform detailed welding; ability to perform complex mechanical repairs on pumps and other plant equipment.

3. Special Qualifications:

Must be able to lift 75 pounds.

Must possess a grade IV Utah Wastewater Treatment Operator Certification, or the ability to achieve one within two years.

Must possess a valid Utah State Driver's License.

Must be willing to work on-call and be able to respond to the plant site within 30 minutes of an emergency call out.

Must be a member of the Emergency Response Team.

WORK ENVIRONMENT

Daily exposure to hazardous conditions such as: working on high ladders and in manholes; daily potential for hazardous exposure to methane, hydrogen sulfide and chlorine gases; daily potential for hazardous exposure to oxygen deficient atmosphere; daily exposure to seasonal changes and weather extremes; daily potential for hazardous exposure to electrical shock, industrial wastes and raw sewage (containing pathogens such as typhoid, paratyphoid, dysentery, polio, tetanus, etc.); daily exposure to moving parts and equipment such as pumps, motors, heavy equipment, etc.; daily exposure to stressful environmental conditions such as dust, fumes, dampness, cold, heat and noise.