

PUMP MAINTENANCE MECHANIC

Position Code: 1840

WC Code: 7580

FLSA Status: Non-Exempt

Pay Grade: 351

Location: Public Services

Approval Date: 2023

General Statement of Duties

Performs responsible technical and skilled work in the operation, maintenance and repair replacement of machinery and equipment in the sewer pumping stations and wastewater treatment plants.

Distinguishing Features of the Class

An employee in this class performs journey level operations and mechanical work in the operation, maintenance and repair of specialized equipment and machinery in sewer pumping stations. Work involves responsibility for maintaining and repairing motors, pumps, and related equipment. Work requires knowledge of trade skills in rotating equipment or other mechanical areas. The employee is subject to hazards associated with wastewater and mechanical operations including working in both inside and outside environments, in extreme hot and cold weather, and exposure to various hazards such as loud noises, vibrations, moving mechanical parts, electrical current, working on scaffolding, exposure to chemicals fumes, odors, dusts, mists, gases, poor ventilation and oils. Work around raw sewage is also subject to the final standards of OSHA on bloodborne pathogens. Work is performed under regular supervision. Work is evaluated in terms of effectiveness in returning equipment to proper operating conditions within given time schedules, and overall effectiveness of system performance.

Duties and Responsibilities

Maintains and repairs pumps, motors and hydraulic systems and other apparatus and equipment.

Plans and participates in regular preventative maintenance inspections such as checking and lubricating bearings, gear boxes, checking and replacing filters, cleaning out wet wells, packing pumps, mowing and other preventative maintenance activities.

Assists with troubleshooting, diagnosing, and repairing parts or equipment due to failure.

Dismantles and overhauls various equipment; cleans, replaces, and repairs gauges, grit collectors, grinders, pumps, diffusers, engines, and blowers.

Rebuilds and overhauls defective parts and machinery, instrumentation, and equipment; maintains and services electrical generators for emergency power sources during outages.

Participates in ground, lawn, and facility maintenance.

Performs related duties as required.

Recruitment and Selection Guidelines

Knowledge, Skills, and Abilities

Considerable knowledge of the installation, repair, and maintenance of the mechanical, plumbing and hydraulic components of wastewater treatment plants and pumping stations.

Considerable knowledge of the occupational hazards and necessary safety precautions of the work.

Considerable knowledge of the tools, parts and methods associated with diagnosing, repairing, and maintaining equipment.

Knowledge of state laws regulating wastewater treatment and the standard procedures necessary to meet permitted requirements.

Skill in the use and care of tools of the trade.

Ability to detect malfunctioning of pumps and motors by observation, sound, and chart readings, and to take proper remedial action.

Ability to read and follow schematic drawings, blueprints and written and oral instructions.

Ability to establish and maintain effective working relationships with co-workers and supervisor.

Ability to prepare and maintain accurate records and prepare reports.

Physical Requirements

Must be able to physically perform the basic life operational functions of climbing, balancing, stooping kneeling, crouching, reaching, walking, pushing, pulling, lifting, fingering, grasping, feeling, hearing and repetitive motions.

Must be able to perform heavy work exerting up to 100 pounds of force occasionally; and/or up to 50 pounds of force frequently; and/or up to 20 pounds of force constantly.

Must possess the visual acuity to operate machines and equipment including close inspection of moving and small parts, using measurement devices, perform assembly and fabrication of parts, prepare maintenance records, and operate a computer terminal.

Minimum Education and Experience

High School diploma or GED and five to seven years of experience in pump repair; or an equivalent combination of education and experience.

Special Requirements

Ability to obtain Grade I WWC within one year of employment.

A valid North Carolina Commercial Driver's License class B or the ability to obtain within 18 months of hire. Tanker endorsement or the ability to obtain with the Commercial Driver's License may also be required.