

# PUMP MAINTENANCE MECHANIC

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Position Code: 1840

WC Code: 7580

FLSA Status: Non-Exempt

Pay Grade: 348

Location: Public Services

Approval Date: 2022

## **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 large and specialized equipment and machinery in sewer pumping stations and wastewater treatment plants. Work involves responsibility for maintaining and repairing motors, chemical pumps, and related plant equipment. Work requires knowledge of trade skills in mechanical and plumbing 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**

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.

While performing the duties of this job, the employee is frequently required to reach with hands and arms, stand, sit, walk, use hands to grasp, handle, feel or operate objects, tools, or controls and talk or hear. Finger dexterity is needed to access, enter, and retrieve data using a computer keyboard or calculator and to operate tools and equipment. The employee is occasionally required to climb,

balance, stoop, and crouch. This position involves heavy work requiring the employee to exert 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 to move objects. Lifts and carries heavy equipment and/or materials (up to 50 pounds) to carryout assignments. Must possess the visual acuity to read gauges, dials and observe moving parts of machines, and to record and review written records.

The employee may be exposed to hazardous physical conditions (including but not limited to confined spaces, heights, mechanical parts, work zones, electrical currents, and vibration) infectious diseases (air and water borne pathogens), poor atmospheric conditions (including but not limited to fumes, odors, dusts, gases, and poor ventilation), inadequate lighting, and intense noise. In addition, the work will require seasonal exposure to extreme weather conditions, snakes, insects, and wildlife common to water and sewer lines, underground utilities and construction sites.

### **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.