

# **WASTEWATER MAINTENANCE TECHNICIAN II**

## **JOB PURPOSE AND SUMMARY**

Performs a variety of highly skilled work in the maintenance and repair of the wastewater treatment facility, pump station and portions of the collection system. Performs work with considerable independence in all types of climates, and is responsible for the inspection, adjustment, installation, troubleshooting, repair and preventive maintenance of all equipment and structures associated with the wastewater treatment facility.

## **CLASSIFICATION DISTINCTIONS**

The Wastewater Maintenance Technician II classification requires specialized knowledge of equipment maintenance and repair techniques as applied to a modern waste water treatment plant.

Maintenance Technician II employees exercise independent judgment and demonstrate an advanced level of mechanical expertise with the ability to resolve complex or unique equipment and repair problems. The Maintenance Technician II employees, along with the other treatment plant employees, report directly to the Operation's Superintendent.

## **KEY OR TYPICAL TASKS AND RESPONSIBILITIES**

- Maintains, inspect, repairs, installs, troubleshoots, lubricates and adjusts machinery and equipment of some or all of the following types.
  1. Varying sizes of electric motors including variable speed driven electric controls and switch gear.
  2. Pumps varying in size and type from small chemical metering pumps through large capacity wastewater pumps.
  3. Gas fired boilers, heat exchangers, blowers, aeration systems, valves, regulators, disinfection equipment, bar screens, grit removal equipment, conveyance systems, level and flow controls, air compressors, auxiliary engines and diesel generators, pneumatic, hydraulic, and electric control systems.
- Participates in the development, planning and implementation of ongoing preventative maintenance programs.
- Operates a variety of shop equipment including welding, drilling, grinding and sawing equipment, skillfully use hand and power tools, performs corrective maintenance as required.
- Trains and provides general preventative and corrective equipment maintenance and repair advice as needed to less experienced treatment plant employees assisting with maintenance work.
- Uses computer system to track work orders, spare parts inventories, and maintain

maintenance records.

- Maintains effective working relationships with all other plant staff, outside vendors, regulatory agencies, other County departments, and the public.
- Designs and fabricates special electrical and mechanical systems as required.
- Maintain and repair the main sewer line, force main and outfall line.
- Works closely with engineers and inspectors on projects, reviews and comments on design and construction/maintenance plans and specifications.
- Performs general housekeeping duties and ground maintenance.
- Performs related duties as assigned and at times performs work similar to that assigned to a Wastewater Operator I employee.

## **QUALIFICATIONS**

- Requires High School Diploma or equivalent (i.e. G.E.D.) with demonstrated proficiency in reading, writing and mathematics.
- Formal or vocational training in industrial mechanical maintenance sufficient to demonstrate proficiency in all skills, knowledge, and abilities listed.
- Minimum 5 years working experience in industrial maintenance setting.
- Must possess a valid driver's license.
- Possession of a limited electrical license is desirable.
- Any combination of experience of the noted essential job functions listed that establishes candidates abilities, skills and knowledge will be considered to establish minimum years experience required.

**Knowledge of:** Current methods, practices and materials used in mechanical maintenance and repair work; construction, operation and common problems of valves, pumps, motors, boilers, electrical apparatus, and associated equipment used in wastewater treatment; occupational hazards and safety precautions and procedures applicable to work; computerized maintenance management systems.

**Ability to:** Follow oral and written instructions; detect and correct defects in process equipment and systems; read, comprehend, interpret and understand complex technical manuals, machine blueprints and specifications; use a computer to generate reports; work in confined spaces in

awkward positions; perform accurate arithmetical calculations; drive a motor vehicle; establish and maintain effective working relationships; provide technical support to coworkers; effectively communicate in writing and orally; skillfully use tools, equipment and materials of the trade; wear and properly use all associated Personal Protective Equipment and perform all work in a safe manner.

### **WORK ENVIRONMENT & PHYSICAL DEMANDS**

Employees in this category work in all types of climates, both indoors and outdoors. Work may be performed in adverse weather and environmental conditions. This includes working in and around raw sewage, in small, often awkward, positions. Work may be performed from ladders or scaffolding and possibly in hazardous atmospheres. Heavy phone contacts with suppliers, manufacturers, other agencies will be regularly experienced as well as face to face interactions with the public. Employees are subject to shift work, may work alone, and will be subject to perform on-call duties 24 hours a day, seven days a week.

Physical demands include but are not limited to standing, crouching, climbing stairs and ladders, reaching, twisting, repetitive motion and lifting. Employees may be required to use a respirator and/or a Self Contained Breathing Apparatus.

REVISED 09/98  
Office Use: 6/23/00