



**WASTEWATER MAINTENANCE SPECIALIST-INSTRUMENTATION**

**Department:** Planning and Public Works  
**Job Class #:** 953900  
**Pay Range:** Maintenance/Trades 39

**FLSA:** Non-Exempt  
**Represented:** No

Classification descriptions are intended to present a descriptive list of the range of duties performed by employees in this class and are not intended to reflect all duties performed within the job.

**GENERAL FUNCTION:** This is highly skilled instrumentation work in the Planning and Public Works Department of Pierce County. An employee in this class is primarily responsible for the installation, maintenance, and repair of instrumentation systems. Work includes responsibility for the proper functioning of all instrumentation equipment of the County's wastewater treatment plant and other utility facilities.

**SERIES CONCEPT:** Wastewater Maintenance Specialist – Instrumentation is a maintenance position in the Wastewater Treatment Plant and Collection System Operations. This position is distinguished from the Wastewater Maintenance Technician by the journeyman status and is considered a highly skilled maintenance position.

**ESSENTIAL FUNCTIONS:**

- Develop and improve instrumentation systems, and modify equipment for optimum operation.
- Perform necessary adjustments and calibrations of instrumentation by using prepared chemical standards, portable electronic meters and related calibration equipment.
- Install new equipment and wire the units according to electrical codes, schematics and diagrams provided.
- Perform preventive and corrective maintenance on equipment; develop and implement preventative maintenance program.
- Use test equipment such as multi meters, digital voltmeters, digital calibrators, oscilloscopes, frequency measuring meters, potentiometers, Wheatstone bridges and other electrical and electronic measuring devices.
- Maintain and repair plant computer systems.
- Lead, train, provide direction and instruct other employees as required.
- Maintain, modify, and repair radio and telephone telemetry systems.

**OTHER JOB FUNCTIONS:**

- Perform other job functions as assigned.

**SUPERVISION RECEIVED AND EXERCISED** Work is performed under the general supervision of the Wastewater Maintenance Supervisor or designee who reviews the work through on-site inspection, participating in work and by overall evaluation of results obtained. The Wastewater Maintenance Specialist – Instrumentation leads, trains, orientates and provides direction and assistance to other employees assigned to work at the plant or on the collection system.

**WORK ENVIRONMENT:** The work environment characteristics described herein are representative of those an employee encounters while performing the essential functions of the position. Work is performed around a variety of inside and outside environmental conditions, in tight and confined spaces, above and under ground, is subject to loud noises and noxious fumes, and working around high voltage plant and collections equipment and machinery.

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## Classification Description – Pierce County

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**PHYSICAL REQUIREMENTS:** The physical demands described herein are representative of those that must be met by an employee to successfully perform the essential functions. A position in this class is generally exposed to prolonged periods of standing, bending, climbing, loud industrial noises, fumes, and gases, above and under ground, climbing and descending ladders to a height of 30 feet, enter and exit confined spaces with openings of 24 inches in diameter, use of hands for operating a variety of hand/power tools, equipment, and machinery requiring finger and hand dexterity, observing equipment and machinery in order to ensure proper working conditions, working in the field or in a plant working environment in all types of weather conditions and using proper safety equipment and devices. This position is exposed to low and high voltage electricity.

### **KNOWLEDGE, SKILLS, AND ABILITIES**

#### **Knowledge of:**

- Standard principles and practices applied to preventive and corrective maintenance of electrical instrumentation used in wastewater treatment plants.
- Scientific electronic instrumentation for monitoring systems and repairs.

#### **Skill in:**

- The use of systems software, spreadsheet software and computers at the proficient level.
- Skill in the use and care of test calibration equipment.

#### **Ability to:**

- Repair and calibrate chlorinators, gas detectors, variable frequency drives, portable flow meters, pressure gauges, and gas and diesel distribution systems; and implement an effective instrumentation preventive maintenance program.
- Maintain, modify, and repair radio and telephone telemetry systems.
- Effectively educate, train, motivate and direct a wide variety of individuals or groups.
- Establish and maintain effective working relationships with County officials, employees and the general public.
- Understand and follow written and verbal instructions.
- Communicate effectively verbally and in writing to audiences of various social, cultural, ethnic, educational and economic backgrounds.
- Effectively coordinate, perform and complete multiple duties and assignments concurrently and in a timely manner.
- Maintain regular, predictable and punctual attendance during regularly scheduled work hours at assigned worksite.
- Work a flexible schedule, which may include evenings, weekends, holidays and overtime.
- Meet the travel requirements of the position, if any.
- Physically perform the essential job functions of the classification.

**MINIMUM REQUIREMENTS TO APPLY:** High School diploma plus graduation from a two (2) year vocational/technical school with electronic emphasis and four (4) years experience in the maintenance and repair of electronic measurement devices and systems. A combination of education and experience which clearly demonstrates ability to perform the duties of the class may be substituted for education and formal training.

**SPECIAL REQUIREMENTS AND/OR QUALIFICATIONS:** A physical examination may be required from a county approved examiner prior to appointment.