

**Title:** Water Plant Instrument/Control Technician I  
**PG:** 38  
**Status:** Civil Service  
**Position Reports to:** Designated Supervisor  
**Department:** Water Utilities

**Class Code:** 3096  
**Date:** 09/08

**GENERAL DESCRIPTION OF CLASS:**

This is technical work pertaining to instrumentation and control at a water treatment plant. An employee in this class performs work of moderate difficulty including the installation, calibration, maintenance, operation, and repair of various types of equipment. Assignments are given in broad outline and field work is ordinarily supervised in process and inspected upon completion.

**ESSENTIAL FUNCTIONS:**

1. Assists in the installation, adjustment, calibration, maintenance, and repairs of a variety of electromechanical, electrical, mechanical, digital computer, and electronic components of plant instrumentation and control.
2. Performs preventive maintenance and repair of electromechanical analog recorders, electronic recorders, and emission monitoring equipment.
3. Assists in the repairs and calibration of transmitters, pressure gauges, assorted switching devices, level indicators, and associated equipment.
4. Installs copper, plastic, steel, or stainless steel tubing.
5. Takes instrumentation readings at various points to check on the operation and controls of the plant systems and equipment.
6. Adjusts and calibrates instruments and controls following repairs; makes analysis to ensure their proper operation.
7. Maintains detailed work reports.
8. Assists engineers and others in compiling data for plant efficiency studies.
9. May order parts for above equipment.

**ADDITIONAL RESPONSIBILITIES:**

1. Will be trained, assigned and shall be an active participant in the departments "Emergency Response Team."
2. Performs related work as required.

**KNOWLEDGE, SKILLS & ABILITIES:**

1. Knowledge of the installation, operation, and repair of electromechanical, electrical, mechanical and digital computer instrumentation.
2. Knowledge of occupational, operation, terminology, hazards and safety precautions for common instruments and controls.
3. Knowledge of the methods, materials, and tools used in this type of work.
4. Extensive skills in the operation of electric/electronic test equipment such as DC power supplies, milliamp and millivolt calibrators, multimeters, and signal sources, as well as standard tools.
5. Knowledge of electric and electronic circuits and wiring systems.
7. Skill in the use of tools employed in the trade.
8. Ability to determine the proper test equipment required for appropriate trouble-shooting.
9. Ability to read, interpret, and use prints and plans involving various types of instruments.
10. Ability to work with delicate instruments.
11. Ability to understand, trouble shoot, and make minor changes to computer software used in control systems.
12. Ability to establish and maintain effective working relationships with Co-workers, other City employees and the general public.

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**WORKING ENVIRONMENT/CONDITIONS:**

Requires medium work that involves climbing stairs, walking or standing some of the time, exerting up to 50 pounds of force on a recurring basis, and routine keyboard operations.

The job risks exposure to electrical shock, chemicals, wet/humid conditions, heights, adverse weather conditions, confined spaces, pollen, dusts, fumes, noxious odors, vibration, extreme noise levels, moving machinery, and bright/dim light.

The job requires normal visual acuity, and field of vision, hearing, speaking, color perception, sense of smell, depth perception, and texture perception.

**QUALIFICATIONS (EDUCATION, TRAINING AND EXPERIENCE):**

1. High school diploma or its equivalent.
2. One (1) year of technical training in this type of work.
3. An equivalent combination of education and experience that is determined to be directly related to the foregoing specific requirements may be substituted.

**SPECIAL REQUIREMENTS:**

1. Must possess and maintain a valid state of Florida driver's license.
2. Must maintain a valid home telephone number.
3. State of Florida Class "C" water plant operator certification is preferred.
4. Performs emergency repairs on the water instrumentation and control system after normal working hours; subject to working overtime and participating in stand-by duty.
5. May be required to pass and maintain qualification for:
  - a. Respiratory Protection Physical
  - b. Pulmonary Function
  - c. Qualitative and Quantitative Fit Test(s)
6. May be required to work overtime, or alternate hours, as necessary for the efficient operation of the department. Position may be designated as Mission Critical by Department Director.