

Title: Instrument and Control Technician I
PG: 024
Status: Civil Service
Position Reports to: Power Production Foreman
Department: Lakeland Electric

Class Code: 3105
Date: 02/10

GENERAL DESCRIPTION OF CLASS:

This is technical work pertaining to instrumentation and control at a multi-fueled electrical power generation plant. An employee in this class performs work of considerable 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. Installs, adjusts, calibrates, maintains, and repairs various types of pneumatic, analog, and digital controls equipment used in a large electrical power plant.
2. Performs preventive maintenance and repair of electromechanical analog recorders, electronic recorders, and emission monitoring equipment.
3. Repairs and calibrates transmitters, pressure gauges, assorted switching devices, temperature indicators, and associated equipment.
4. Installs copper, 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 for loop tuning.
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. Performs related work as required.

KNOWLEDGE, SKILLS & ABILITIES:

1. Considerable knowledge of the procedures used involving combustion analysis, gauge calibration, multi-fuel instrumentation, or other controls used in power generation.
2. Considerable knowledge of pneumatic components and systems.
3. Considerable knowledge of the methods, materials, and tools used in this type of work.
4. Knowledge of the several types of flow transmitters and primary element installations.
5. Knowledge of electric and electronic circuits and wiring systems.
6. Knowledge of the occupational hazards and safety precautions of the trade.
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, troubleshoot, 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.

WORKING ENVIRONMENT/CONDITIONS:

Requires active work that involves walking or standing some of the time, exerting up to 100 pounds of force on a recurring basis, and routine keyboard operations.

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The job risks exposure to electrical shock, 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. May be required to pass and maintain qualification for:
 - a. Respiratory Protection Physical
 - b. Pulmonary Function
 - c. Qualitative and Quantitative Fit Test(s)
4. 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.