

**Title:** Energy Supply Trainee I

**PG:** 10

**Status:** Civil Service

**Position Reports to:** Power Production Foreman or Journeyman Craft Person

**Department:** Lakeland Electric

**Class Code:** 8225

**Date:** 09/08

### **GENERAL DESCRIPTION OF CLASS:**

This is a special training position coordinated through Polk County Schools or Polk Works. A Trainee becomes familiar with the operation and maintenance of equipment in either a large fossil fuel electric generating plant or a steam electric power plant. A trainee works under direct supervision of the Foreman or Craft Person in several areas of operations (Power, Water, and Material Handling), and plant maintenance (mechanical, electrical, or Instrument & Control) to learn about skills needed in a variety of plant positions. This position is the first in a developmental series leading to positions such as Multi-Craft Operator or a craft Specialty such as Station Electrician, Instrument & Control Technician, Plant Mechanic, or Plant Welder. Employees in this classification will rotate through several assigned work areas. Rotations will involve some shift changes.

### **ESSENTIAL FUNCTIONS:**

Trainees will be assigned to a variety of the following functions:

1. Learns about performing a variety of maintenance work on boilers, gas turbines, and associated equipment using hand tools and machine tools in repairing and maintaining burner systems, pumps, air compressors, motors, heaters, coolers, hydrogen systems, conveying systems, fuel gas or oil, RDF fuel, turbine generators, and other plant machinery and equipment.
2. Learns about doing inspections on machines for irregular bearing performance, to troubleshoot valves, to make running adjustments, and repairs.
3. Learns about reading machine drawings and performing pipe fitting in order to assist in the disassembly and reassembly of rotating equipment.
4. Learns to perform regular equipment and systems checks.
5. Learns about troubleshooting and maintaining electrical systems, including reading blueprints and diagrams for wiring of breakers, motors, and relays, as well as piping diagrams for other plant equipment.
6. Learns about installing power and lighting circuits in buildings.
7. Learns about the installation, adjustment, calibration, maintenance and repair of various types of power plant electrical and electronic equipment.
8. Learns about taking instrumentation readings at various points to check on the operation and control of plant systems.
9. Attends assigned training classes and completes self-directed study courses.
10. Conducts all duties and assignments in compliance with safety rules and procedures.

### **ADDITIONAL RESPONSIBILITIES:**

1. Learns to perform related work as required.
2. May learn to perform various types of welding and cutting.
3. May learn to help perform preventative maintenance and repair of electromechanical analog recorders.
4. May learn to assist in compiling data for plant efficiency studies.

### **SUPERVISORY RESPONSIBILITIES:**

No supervisory responsibility.

### **KNOWLEDGE, SKILLS & ABILITIES:**

1. Ability to complete training (on-the-job, classroom, and self study) to obtain knowledge in the operation and maintenance of power plant equipment such as turbine generators, combustion turbines, boilers, pumps, conveying systems, motors, fans, and related equipment.

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2. Ability to complete training to obtain knowledge and application of steam flow sequences; steam, condensation, feed water, air, boiler gas, water treatment, and related plant systems.
3. Ability to complete training to obtain knowledge and application of the practice, methods, and tools used in welding and instrument & control work.
4. Ability to complete training to obtain knowledge of the standard practices, tools and materials of the mechanical trade.
5. Ability to complete training to obtain knowledge and application of the following electrical areas: the principles of electrical theory as applied to electrical and electronic circuits and wiring systems: the methods, materials, and tools used in electrical construction and maintenance work.
6. Ability to understand and willingness to follow oral and written instructions.
7. Ability to read and understand maintenance instruction manuals.
8. Ability and willingness to work effectively in a team environment maintaining harmonious relationships with other employees.
9. Ability and willingness to observe proper safety precautions.
10. Ability and willingness to determine and take proper action quickly in emergency situations.
11. Ability and willingness to work shifts necessary to complete duties.
12. Ability to learn how to use hand tools and machine shop equipment.
13. Ability to learn to read and interpret various wiring, piping, hydraulic systems, component and instrumentation diagrams and charts.
14. Ability/willingness to perform work safely and to report unsafe practices/situations to the appropriate supervisor.
15. Ability/willingness to perform work to support the vision, mission, values and goals of the department.

**WORKING ENVIRONMENT/CONDITIONS:**

The job requires manual work that involves walking on uneven terrain or standing for long periods of time, exerting up to 100 pounds of force on a recurring basis in some job assignments, crouching, reaching overhead, squatting, climbing ladders and stairs, and manipulating small objects in a precise manner.

The job risks exposure to traffic, electrical voltage, heights, pollen, dust, noxious fumes, toxic chemicals, extreme cold/hot temperatures, adverse weather conditions, bright/dim light, loud noise.

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

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

1. High school diploma or G.E.D. with at least a 2.0 grade point average.
2. Must be at least 18 years of age

**SPECIAL REQUIREMENTS:**

1. Must maintain City driving privileges/valid Florida driver's license
2. Must maintain a valid contact phone number.
3. Must be willing to work hours set by Lakeland Electric.
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.
5. Must attend classes as scheduled and pass exams given with a score of 70% or higher.
6. Must complete self-directed study courses as assigned.
7. May be required to pass and maintain qualification for:
  - a. Respiratory Protection Physical
  - b. Pulmonary Function

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- c. Qualitative and Quantitative Fit Test(s)
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