

Title: Multicraft Operator Apprentice II
PG: 019
Status: Civil Service
Position Reports to: Power Production Foreman or MCO
Department: Lakeland Electric

Class Code: 7107
Date: 10/09

GENERAL DESCRIPTION OF CLASS:

This is apprentice and skilled level work assisting in the operation and maintenance of a large Fossil Fuel Electric Power Plant. An employee in this classification works under the direction of the appropriate MCO, operator, foreman, craftsperson, or supervisor at Larsen or McIntosh Plant and is responsible for operating and maintaining power generating equipment. In addition to the operations duties, employees are responsible for the performance of a variety of repair and maintenance tasks in maintaining efficient operation. An employee in this classification is expected to possess or develop skills in one or more craft areas and work toward journeymen-level knowledge in the maintenance vocation/craft(s). Work may involve the maintenance of plant electrical equipment or fire protection/fire suppression systems, instrumentation and control equipment, or in making mechanical/welding repairs. Work assignments may arise as a result of breakdowns in the plant, oral or written instructions, or from firsthand inspections of operating conditions.

ESSENTIAL FUNCTIONS:

1. Operates and performs regular hourly checks on burner systems, pumps, air compressors, motors, heaters, coolers, hydrogen systems, fuel, boilers, turbine generators, combustion turbines, and associated equipment in a large multi-fuel burning power plant.
2. Performs a variety of maintenance work on boilers, gas turbines and steam turbines using hand and machine tools in repairing and maintaining pumps, motors, air compressors, valves, condensers, heaters, and other plant machinery and equipment.
3. Inspects machines for irregular bearing performance, troubleshoots valves, makes running adjustments and repairs.
4. Reads and understands machine drawings, and performs pipe-fitting in order to assist in the disassembly and reassemble of rotating equipment.
5. Operates heavy equipment; erects and disassembles scaffolding and rigging.
6. Troubleshoots and maintains electrical, sprinkler, and fire alarm systems including reading blueprints and diagrams for wiring of breakers, motors, and relays, as well as piping diagrams for sprinkler system piping and other power plant equipment.
7. Installs power and lighting circuits in buildings.
8. Assists in the installation, adjustment, calibration, maintenance, and repair of various types of power plant electrical and electronic equipment.
9. Obtains instrumentation readings at various points to check on the operation and control of plant systems.
10. Samples, analyzes, replenishes, and maintains pure water system, associated equipment and laboratory.
11. Offloads, stores, and maintains liquid fuels and associated fuel storage and delivery system.
12. Attends assigned training classes and completes self-directed study courses.
13. Conducts all duties and assignments in compliance with safety rules and procedures.

ADDITIONAL RESPONSIBILITIES:

1. May train to perform various types of welding and cutting.
2. Performs preventive maintenance and repair of electromechanical analog recorders, electronic recorders, analog and digital control equipment, and emissions monitoring equipment as directed.
3. Assists in compiling data for plant efficiency studies.
4. Performs related work as required.

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KNOWLEDGE, SKILLS & ABILITIES:

1. Knowledge of the operation of power plant equipment such as turbine generators, combustion turbines, condensers, boilers, pumps, air compressors, motors, fans, and related equipment.
2. Knowledge and application of full flow steam plant sequences; steam, condensate, feedwater, air, boiler gas, water treatment, etc.
3. Knowledge and application of the practice, methods, and tools used in welding.
4. Knowledge and application of the methods, materials, and tools used in instrument and control work.
5. Knowledge and application of the standard practices, tools and materials of the mechanical trades.
6. Knowledge and application of fire alarm theory and fire suppression automatic systems.
7. 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, the principles of electrical theory as applied to electrical circuits and wiring systems.
8. Knowledge and application the principles of electrical power generation.
9. Ability to understand and follow oral and written instructions and carry out routine duties without direct supervision.
10. Ability to read and understand operating instruction manuals.
11. Ability to work effectively in a team environment maintaining harmonious relationships with other employees.
12. Ability to observe proper safety precautions.
13. Ability to determine and take proper action quickly in emergency situations.
14. Ability to work rotating extended shifts (including night shifts).
15. Skill in the use of hand tools and machine shop equipment.
16. Skill in reading and interpreting various wiring, piping, hydraulic, system, component, and instrumentation diagrams and charts.
17. Skill in the sampling, analysis, and replenishment of water samples, reagents, and maintenance of laboratory equipment.

WORKING ENVIRONMENT/CONDITIONS:

Requires manual work that involves walking on uneven terrain or standing most of the time, exerting up to 100 pounds of force on a recurring basis, crouching, reaching over the head, squatting, climbing ladders and stairs, manipulating small objects in a precise manner, and routine keyboard operations.

The job risks exposure to traffic, electrical voltage, heights, pollen, dusts, noxious fumes, toxic chemicals, extreme cold/hot temperatures, adverse weather conditions, and 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 texture perception.

QUALIFICATIONS (EDUCATION, TRAINING, AND EXPERIENCE):

1. High school diploma or its equivalent and two (2) years of experience as a Power Plant Operator, or other appropriate position, with demonstrated aptitude.
2. Or High school diploma or its equivalent and two (2) years of experience in the electrical, mechanical, controls instrumentation vocation/craft or other appropriate position, with demonstrated aptitude.
3. Completed required MCO level 2 training curriculum and passed the final exam for that level and be actively enrolled in MCO level 3 training.
3. An equivalent combination of education and experience that is determined to be directly related to the foregoing specific requirements may be substituted.

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SPECIAL REQUIREMENTS:

1. Must possess and maintain a valid state of Florida driver's license.
2. Must maintain a valid home telephone number.
3. Employee in the classification is expected to attend assigned training and complete self-directed study courses.
4. Employee is expected to complete and pass section tests related to assigned training and a final comprehensive exam within 18 months of employment in this classification.
5. 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.