

Title: Multicraft Operator
PG: 049
Status: Civil Service
Position Reports to: Power Production Supervisor
Department: Lakeland Electric

Class Code: 7105
Date: 10/09

GENERAL DESCRIPTION OF CLASS:

This is a responsible skilled journeyman and supervisory level work assisting in the operation and maintenance of a large Electric Power Generation Station. An employee in this classification works under the direction of a Power Production Foreman at the Charles Larsen or the C.D. McIntosh Plant, and is responsible for the operation and maintenance of large industrial power generating machinery. In addition to daily operational and maintenance tasks associated with power generation, this employee will be routinely required to perform performance tests on operating equipment. An employee in this classification is required to possess a journeyman-level knowledge of operations and to have journeyman-level knowledge in one or more of the following maintenance crafts, (Electrical/Instrument, or Mechanical). The journeyman-level employee may be ultimately responsible for instructing and training the MCO Apprentice. Work may involve the operation and maintenance of plant electrical and control systems, or making mechanical repairs to centrifugal and heat transfer equipment. Work assignments may arise as a result of breakdowns of equipment in the plant, oral or written instructions, or from firsthand inspections and performance test results of the equipment.

ESSENTIAL FUNCTIONS:

1. Performs regular checks, monitors equipment and system performance.
2. Isolates and returns to service equipment such as boilers, turbine generators, compressed air systems, cooling water systems, lube oil systems, hydrogen and carbon dioxide systems, circulating water systems, natural gas delivery, combustion turbines, demineralizers, process water treatment systems, fuel burner systems, motors, pumps, heat exchangers, and other associated equipment and chemicals located in a large multi-fuel burning generation station in a safe manner.
3. Performs routine preventative maintenance of equipment, and provides safe electrical and mechanical isolation of the equipment through electrical and mechanical isolation points.
4. Performs a variety of medium to complex journeyman-level mechanical tasks on heavy power generation equipment, such as boilers, steam turbines, combustion turbines, gas and air cooled generators, single to multi-stage high pressure centrifugal process pumps, gearboxes, motor operated valves, process control valves, pressure relief valves, air compressors, reciprocal pumps, conveyors, piping systems, condensers, heat exchangers, filtration systems, and other power generation equipment.
5. Performs diagnostics of complex mechanical systems and completes mechanical repairs to the system.
6. Operates heavy equipment, performs heavy rigging of machinery, reads blueprints, piping and instrument flow diagrams.
7. Performs plumbing and pipe fitting functions, does layout and fabrication work with steel and alloy materials.
8. Performs basic plate welds (3G), using electric arc process, performs basic welds in oxygen acetylene process as directed, performs oxygen acetylene cutting.
9. Performs mechanical repairs to combustion fuel engines, gas and diesel. Makes running adjustments to equipment based on performance curves and historical documentation.
10. Performs complex machinery alignment, thermography, and vibration detection.
11. Performs a variety of medium to complex journeyman-level electrical and instrument tasks on heavy power generation equipment, such as boilers, steam turbines, combustion turbines, gas and air cooled generators, electric motors, motor operated valves, process control valves, air compressors.
12. Performs diagnostics of complex electrical wiring and control instrument circuits.
13. Installs power, control, and lighting circuits in the generation facility.

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14. Installs, adjusts, calibrates, maintains, and repairs various types of power generation electrical and electronic equipment.
15. Performs preventative and corrective maintenance to electromechanical analog recorders, analog and digital control equipment, and repairs continuous emissions monitoring equipment, and repairs and maintains medium range breakers.
16. Performs repairs on MCC / Breakers of varied voltage.
17. Samples, analyzes, replenishes, and maintains pure water system, associated equipment and laboratory.
18. Supervises, evaluates, trains, and councils direct reports
19. Performs administrative duties such as monitoring budget expenditures and resource allocation.
20. Conducts all duties and assignments in compliance with safety rules and procedures

ADDITIONAL RESPONSIBILITIES:

1. Performs repair task with hand, machine, and motor operated tooling routinely.
2. Maintains detailed work reports for historical documentation and future equipment upgrades.
3. Performs related work as required.

KNOWLEDGE, SKILLS & ABILITIES:

1. Knowledge of plant safety policies.
2. Knowledge of locations, operating and maintenance characteristics, and requirements of the various parts of power plant system such as controls, lube oil system, seal oil system, etc.
3. Knowledge of computing basic power plant mathematics, including adding, subtracting, multiplying and dividing whole numbers, negative numbers, decimals, and fractions.
4. Knowledge of startup, shutdown, and normal operation of a power generating plant.
5. Ability to understand, follow, and perform tasks and instructions communicated in oral form and or in written form without direct supervision.
6. Ability to anticipate operational and maintenance requirements for equipment from electronically stored historical equipment documents.
7. Ability and willingness to work in a team environment and maintain harmonious relationships with other employees.
8. Ability to plan and determine proper course of action based on individual observations and feedback from other employees.
9. Ability to work independently and understand and carry out complex written and oral instructions.
10. Ability to work with hazardous chemicals and chemical processes, to determine and take proper action quickly and safely in emergency situations.
11. Ability to give direction both orally and written to employees under their supervision.
12. Ability to safely work with high voltage equipment.
13. Ability to perform analytical laboratory processes.
14. Skill in the inspection, operation, troubleshooting and maintenance of all power generating systems including instrumentation, electrical, mechanical, lube oil, cooling water, hydraulic, pneumatic, and fuels.
15. Skill in the use of various hand and power tools, heavy equipment, instruments, and meters.

WORKING ENVIRONMENT/CONDITIONS:

Requires manual work that involves walking or standing most of the time, exerting up to 100 pounds of force on a recurring basis, driving city vehicles and routine keyboard operations. The job risks exposure to electrical voltage, heights, adverse weather conditions, noxious fumes, toxic chemicals, extreme hot/cold temperatures, dusts, pollen, traffic and bright/dim light, noise, and confined/elevated spaces

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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 four (4) years of experience as a Multi-Craft Operator apprentice; and successful completion of the four (4) year MCO Apprenticeship Program.
2. Or six (6) years experience in the vocation of Industrial Mechanics, Industrial Electrical/Electronic/Instrument & Control work at journeyman-level accompanied by six (6) years of journeyman level operational experience in an industrial setting, with demonstrated aptitude.
3. An equivalent combination of education and experience that is demonstrated to be direct replacement to the foregoing specific requirements may be substituted.
4. Completion of city University Level one (1) or completion within twelve (12) months.

SPECIAL REQUIREMENTS:

1. Must possess and maintain a valid state of Florida driver's license.
2. Must maintain a valid telephone number.
3. Must be willing and able to wear a respirator.
4. Must be willing to carry a communication device for extended availability.
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.