

**Title:** Electrician First Class  
**PG:** 039  
**Status:** Civil Service  
**Position Reports to:** T&D Supervisor  
**Department:** Lakeland Electric

**Class Code:** 7017  
**Date:** 10/09

**GENERAL DESCRIPTION OF CLASS:**

This is skilled work in the installation and maintenance of a variety of electrical distribution and transmission facilities. The employee is responsible for performance of skilled electrical tasks in the construction and maintenance of electrical systems, equipment, relays, and control circuits. The employee trains and supervises subordinates. Assignments may be received in both oral and written methods and accompanied with sketches or blueprints. Work is performed independently with considerable latitude for determining materials and work methods required. Work is subject to inspection by a superior during progress and upon completion.

**ESSENTIAL FUNCTIONS:**

1. Constructs and maintains transformers, breakers, switches, regulators, and related equipment.
2. Installs and repairs conduit and wiring in and around electrical facilities; installs related supervisory control cable and equipment.
3. Installs generators, motors, exciters, and related equipment.
4. Installs, checks, operates, and inspects for proper operation automatic switching units, switchboards, batteries, and related electrical apparatus and equipment.
5. Skilled in the use of personal computers and related software applications for testing and records.
6. Skilled in reading blueprints and diagrams; completes switching operations on the electrical system.

**ADDITIONAL RESPONSIBILITIES:**

1. Performs related work as required.

**KNOWLEDGE, SKILLS & ABILITIES:**

1. Extensive knowledge of practices, methods, tools, and materials used in the construction and maintenance of distribution and transmission electrical facilities.
2. Extensive knowledge of the functions and installation of a wide variety of electrical equipment, such as generators, transformers, breakers, motors, pumps, and related equipment and control systems.
3. Extensive knowledge in the application of a wide variety of electrical testing devices, including voltmeters, ammeters, ohmmeters, watt meters, and related test equipment.
4. Extensive knowledge of occupational hazards of the electrical trade and safety practices and procedures.
5. Knowledge of current residential and commercial wiring practices.
6. Knowledge of and ability to perform first aid and CPR.
7. Knowledge and skills of underground high voltage terminations and pad mount switch gear.
8. Skill in the use and care of tools and equipment used in the construction and maintenance of electrical facilities.
9. Skill in troubleshooting and correcting defects in electrical systems and equipment.
10. Ability to understand and follow verbal and written instructions.
11. Ability to read and interpret sketches, diagrams, and blueprints.
12. Ability to supervise other employees.
13. Ability to establish and maintain effective working relationships with supervisor, other employees and the general public.

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**WORKING ENVIRONMENT/CONDITIONS:**

Work that involves walking, standing, stooping, lifting, digging, pushing or raising objects and also involves exerting between 20 to 50 pounds of force on a recurring basis.

The job risks exposure to environmental hazards such as dust, pollen, extreme heat and/or cold, wet or humid conditions, extreme noise levels, fumes, moving machinery, and electrical shock.

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 successful completion of departmental training programs.
2. Two (2) years of experience as an Electrician Apprentice or Lineman Apprentice.
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 Class "B" Commercial Driver's License with appropriate endorsements as required by the department.
2. Must possess and maintain a valid telephone number.
3. Must possess a Polk County Journeyman Electrician License. (Energy Delivery)
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.