

Title: Chief Energy Management System Technician
PG: 60
Status: Civil Service
Position Reports to: Energy Management System Supervisor
Department: Lakeland Electric

Class Code: 3155
Date: 09/08

GENERAL DESCRIPTION OF CLASS:

This supervisory position involves highly specialized and very technical work with the installation and maintenance of Energy Management Systems and Substation I/O equipment including Remote Terminal Units and Substation Integration Systems used in the control, monitoring and communications of an electric power utility. Work is performed in accordance with established policies and procedures; however the incumbent is expected to exercise independent judgment and initiative in the performance of tasks. The position is responsible for obtaining and using related materials, equipment, and procedures, leading and assigning tasks to direct reports, and working participation in the completion of job assignments. Work is reviewed by the position supervisor through the results obtained.

ESSENTIAL FUNCTIONS:

1. Oversees the daily operations of the EMS Shop
2. Schedules and supervises the installation, testing, configuration and repair of all equipment related to the GE XA/21 EMS System including UNIX and Microsoft Windows based servers and workstations, Cisco networking equipment including routers, switches and hubs, Oracle IS&R cluster and Check Point firewall using standard and specialized test equipment and tools.
3. Coordinates the installation, configuration and maintenance of electronic devices in the substation and field including all RTU's and Tasnet and NovaTech Substation Integration Systems using standard and specialized test equipment.
4. Implement database changes in the EMS System including the addition and deletion of points, RTU's, and Communication channels.
5. Uses factory manuals and schematics to repair equipment. Interfaces with factory engineers for aid in trouble shooting complex problems and seeking solutions to continuing problems with equipment.
6. Acquires or makes recommendations to acquire equipment and materials necessary for the completion of the group responsibilities.
7. Ensures that methods used by the EMS Shop personnel follow safety standards and that the appropriate protective devices and equipment are used.
8. Ensures that repair and maintenance records are kept current.
9. Ensures the requisition and inventory of spare parts for all equipment.
10. Supports other personnel and divisions with technical assistance and fieldwork as needed.

ADDITIONAL RESPONSIBILITIES:

1. Ensures that vehicles and work areas remain clean and organized.
2. Performs related work as required.

SUPERVISORY RESPONSIBILITIES:

1. Functions as a "lead" role, assigning, instructing and checking the work of other employees. Majority of time is spent performing the same work duties as other members of the group and developing advanced applications.

KNOWLEDGE, SKILLS & ABILITIES:

1. Thorough knowledge of all protocols used in EMS Systems and Substation Integration systems including Harris H5000, DNP 3.0, SEL Fast Metering and Modbus.
2. Advanced knowledge of theories, techniques, methods, materials, instrumentation, and tools used in specialty.
3. Proficient with server/client based computer systems and networking.
4. Thorough knowledge of the occupational hazards and safety precautions of the trade.
5. Thorough knowledge of the instrumentation used in the specialty.

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6. Skill to train and supervise subordinates in the use and care of electrical and electronic test equipment used in the various areas of the specialty and other such equipment used in the trade.
7. Skill to train and supervise subordinates in using hand tools and precision soldering/unsoldering devices to make repairs to complex printed circuit boards and other electronic devices (Machine operators/inspection level).
8. Thorough understanding of electric power systems and technologies and substation high voltage components.
9. Ability/willingness to perform work safely, oversee the safety of direct reports, co-workers, and the public, and to report unsafe practices/situations to the appropriate supervisor.
10. Ability/willingness to perform work to support the vision, mission, values and goals of the department

WORKING ENVIRONMENT/CONDITIONS:

The job risks exposure to heights, toxic chemicals, traffic, moving machinery, extreme cold/heat, electrical shock, adverse weather conditions, bright/dim light, fumes, noxious odors, dusts, pollen, wet humid conditions and extreme noise levels.

Ability to work off of a six (6) footstep ladder or twenty (20) foot extension ladders to check installation and maintenance of equipment mounted above arms reach.

Ability to load and unload medium weight test equipment into and from a standard passenger van and set the equipment up to perform tests and calibration of electronic or relay equipment at remote locations.

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

QUALIFICATIONS (EDUCATION, TRAINING AND EXPERIENCE):

1. High school diploma and a minimum of a two (2) year technical degree or certification in the electronics field or equivalent.
2. Completed relevant training courses on the GE XA/21 EMS System.
3. Seven (7) years of progressively responsible experience as a qualified Energy Management System Technician.
4. Completion of City University Level one (1) or completion within twelve (12) months.
5. 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 maintain City driving privileges and valid Florida driver's license.
2. Must maintain a valid contact phone number.
3. Must be able to discriminate between the following colors generated by red/blue/green primary colors at full or half intensity: white, green, yellow, orange, magenta, red, cyan, and blue. This qualification will be confirmed by a standard medical test for color blindness.
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.