

CITY OF CORAL SPRINGS Classification Description

CLASSIFICATION TITLE: Utilities Instrumentation Technician
FUNCTIONAL AREA: Public Works Department

WORK OBJECTIVE:

Highly technical work of more than ordinary difficulty and responsibility for Public Works Utilities department in connection with the installation, maintenance, replace, upgrade, and repair of telemetry, motor control equipment and low/high voltage instrumentation transmitting and receiving equipment or control devices. Work involves the responsible application of technical skill in the shop and field in all facets of telemetry communications, control devices, and allied equipment installation and maintenance. Work is performed in conjunction and coordination with other Division Supervisors as required.

ESSENTIAL FUNCTIONS:

The list of essential functions, as outlined herein, is intended to be representative of the tasks performed within this classification. It is not necessarily descriptive of any one position in the class. The omission of an essential function does not preclude management from assigning duties not listed herein if such functions are a logical assignment to the position.

- Installs, tests and repairs radio telemetry transmitting and receiving equipment or control devices in accordance with diagrams and manufacturers' specifications, using hand tools and electrical and electronic measuring instruments; may include reconfiguring or reloading software configurations to system.
- Tests telemetry or control equipment for factors such as power output, frequency power, losses of antennas, noise level, audio quality, and dial calibration using oscilloscopes, radio frequency, water meters, ammeters, voltmeters, etc.
- Adjusts receivers for sensitivity and transmitters for maximum output.
- Installs, tests and repairs low and high voltage instrumentation or control devices; upgrading equipment on motor control and other electrical systems as required.
- Examines equipment for damaged components and loose or broken connections and wires.
- Coordinate and maintain the Electrical Instrumentation Preventive Maintenance program for all motor control and instrumentation systems.
- Maintains inventory supply for parts, equipment, machinery and tools; procures necessary items.
- Maintains records pertinent to maintenance and repair.
- Makes assignments to technicians and checks work to determine acceptable quality.

MINIMUM QUALIFICATIONS:

Education / Certifications / Experience –

High school diploma or GED preferred; supplemented by three (3) to five (5) years of work experience in duties involving installation, maintenance, and repair of radio telemetry communications, control or allied electronic devices and systems; or an equivalent combination of education, training, and experience. Possession of an appropriate State of Florida drivers license based upon area of assignment and must have an acceptable driving record.

Utilities Instrumentation Technician

Knowledge, Skills, & Abilities –

Thorough knowledge of installation, maintenance, and repair methods of radio telemetry transmitting and receiving devices, control devices, and allied communications equipment.

Considerable knowledge of the occupational hazards of the trade and of pertinent safety precautions and measures.

Knowledge of F.C.C. regulations necessary for the maintenance of licensing.

Some knowledge of basic computer systems.

Ability to determine quality of work and compliance with circuit diagrams and schematics.

Ability to climb poles and towers and/or work at heights.

Ability to plan work and supervise technicians in installation of radio telemetry communications and control devices, and maintenance projects.

PHYSICAL REQUIREMENTS:

Tasks involve the intermittent performance of physically demanding work, typically involving some combination of reaching, bending, stooping, kneeling, or crouching, and that may involve the lifting, carrying, pushing, and/or pulling of moderately heavy objects and materials (20-50 pounds). Requires intermittent lifting, carrying, pushing, and/or pulling of heavier objects (80+ pounds).

ENVIRONMENTAL REQUIREMENTS:

Some work is performed in usual office conditions with some exposure to disagreeable environmental factors, e.g., cleaning chemicals/fumes, mild temperature variations, dust. Some work is performed in outdoor environments. Due to the nature and location of the work environment, tasks include potential for intermittent exposure to disagreeable elements, e.g., heat, humidity, inclement weather. Some tasks include working in and around vehicle/equipment and lawn maintenance equipment, where heightened awareness to surroundings and observance of established safety precautions is essential in avoidance of injury or accidents.

The City of Coral Springs is an Equal Opportunity Employer. In compliance with Equal Employment Opportunity guidelines and the Americans with Disabilities Act, the City of Coral Springs provides reasonable accommodation to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the employer.