

Title: Traffic Signal Technician
PG: 45
Status: Civil Service
Position Reports to: Traffic Signal Foreman
Department: Public Works

Class Code: 3084
Date: 6/09

GENERAL DESCRIPTION OF CLASS:

This is a highly technical position in the installation, maintenance and repair of Advanced Transportation Management Systems (ATMS). An employee in this classification is responsible for maintenance and performance of the network operations of the ATMS system. Work assignments are outlined by a superior using material provided by work orders, but the employee has some opportunity for independent action in carrying out assignments. Technical assistance and supervision is provided during the course of assignments and worked is checked during the progress and evaluated upon completion by a supervisor. During emergency call-outs employee must use independent judgment and initiative.

ESSENTIAL FUNCTIONS:

1. Assists in the maintenance, upgrade and monitoring of Traffic signal systems.
2. Assists the Traffic System Operator in monitoring and troubleshooting network problems pertaining to both data and video.
3. Construct traffic signals to include erecting mast arm poles and foundations, install vehicle loop detectors (inductive, video and radar), signal fixtures and control equipment.
4. Ability to use laptop computer in the programming and maintenance of an ATMS system.
5. Understand standard construction procedures, policies and practices to evaluate and inspect signal projects being constructed by others.
6. Completion of work orders issued by the division and maintains call-out and repair records as appropriate.
7. Performs standby on a recurring basis, respond to emergency call-outs on traffic signal malfunctions, storm damage and critical sign replacement.
8. Participates in all required training, both technical and safety for the work place.
9. Perform minimal supervisory functions for newer, less experience technicians.
10. Assists in providing performance reports system wide network performance.
11. Performs basic testing of fiber optic cable.

ADDITIONAL RESPONSIBILITIES:

1. Participates in technical training both locally and out-of-town locations that may require overnight stays.
2. Performs minor drafting, makes new drawings and provides as-builds as required.
3. Performs other related as required.

KNOWLEDGE, SKILLS & ABILITIES:

1. Strong working knowledge of traffic signal industry with necessity in the area of internet addressing, network protocols and fiber.
2. Knowledge of Microsoft Windows and applications that are used in the setup and testing of systems used in the Intelligent Transportation Industry.
3. Ability to quickly solve problems as they arise.
4. Possess exceptional interpersonal abilities, oral and written communication skills.
5. Ability to utilize test equipment such as power meters, ground fault testers, computers and power and light meters.
6. Experience in understanding and implementing network work orders as they pertain to ring topology of an ITS system.
7. Ability to maintain proficiency on new equipment and devices as technology evolves.
8. Skill in using hand tools and precision test instruments used to install and maintain network attached devices.
9. Knowledge of the occupational hazards and safety practices of the trade.
10. Ability to prepare technical reports.

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11. Ability to demonstrate good interpersonal skills.
12. Ability to communicate effectively with supervisor, other city employees, and general public.
13. Ability to read and understand technical manuals for all types of computer and network devices used in the system.
14. Knowledge of principles and practices of traffic engineering.

WORKING ENVIRONMENT/CONDITIONS:

Requires manual labor work that involves walking or standing most of the time and exerting up to 100 pounds of force on a recurring basis, keyboard operations, manipulating tools and wires.

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

The job requires normal visual acuity, good manual dexterity, 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 supplemented by courses in basic electronics or computer repair.
2. Four (4) years of experience in maintenance and repair of traffic control related equipment.
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 maintain a valid home telephone number for standby requirements.
2. Must obtain an IMSA Level II Traffic Signal Technician certification within one (1) year after meeting IMSA requirements.
3. Must possess a valid State of Florida driver's license.
4. Must obtain and maintain a State of Florida MOT Certification.
5. Must be required to pass and maintain qualification for:
 - a. Respiratory Protection Physical
 - b. Pulmonary Function
 - c. Qualitative and Quantitative fit test(s).
6. 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.