



DATE	July 2023
JOB CODE	
FLSA	NON-EXEMPT
EEO	

JOB TITLE: Senior Signal Technician
 DEPARTMENT/DIVISION: Public Works
 REPORTS TO: Traffic Operations Supervisor

SUMMARY: Responsible for serving as a lead in the installation, maintenance, and repair of electronically controlled traffic control devices; trains signal crews in proper application of rules and regulations; performs contactor inspections. Work is performed with limited supervision.

ESSENTIAL JOB FUNCTIONS:

- Serves as a lead to signal crew staff, which includes: prioritizing, assigning, and monitoring work; providing direction; and/or, performing other related activities.
- Installs, maintains, and repairs traffic signals, school zone flashers, and City-owned and maintained street lighting.
- Responds to emergency and on-call situations.
- Prepares and maintains a variety of records related to division repairs and operational activities.
- Participates in training signal crew staff on work and safety procedures and practices.
- Participates in/on a variety of meetings, committees, and/or other applicable groups to receive and/or convey information.
- Performs inspections of work performed by external contractors involved in constructing traffic signals, installing street lights, and performing underground boring.
- Monitors the work of external contractors and ensures contract terms and specifications are met.
- Prioritizes, assigns and monitors traffic signal repairs for assigned staff.
- Installs, troubleshoots and repairs traffic signal equipment.
- Inspects traffic signal equipment at operational intersections to ensure signals are operating as programmed.
- Responds to trouble calls on equipment malfunctions; identifies problem; repairs or replaces faulty equipment; documents trouble calls and problem resolution.
- Routinely patrol streets to identify traffic signals that may need repair.
- Perform routine maintenance on traffic control devices and other equipment.
- Monitors the work of external contractors and ensures contract terms and specifications are met.
- Reads and interprets schematics, blueprints, and other diagrams; such as technical manuals, NEC and MUTCD.
- Replaces parts such as load switches, relays and flashers, and documents process.
- Trains staff on signal repair and safety practices and procedures.
- Makes recommendations and carries out plans with Supervisor approval.
- Maintains daily work records and work orders.

- Flags traffic and erects barricades, cones, and other warning devices.
- Implements safety procedures at job site.
- Performs manual traffic and pedestrian counts.
- Assists in roadway lighting needs when necessary
- Performs line locates for underground traffic signal and lighting equipment as needed.
- Responds to emergency and on call situations.
- Performs other duties as assigned.

SUPERVISORY/BUDGET RESPONSIBILITIES:

- Lead responsibility over Signal Crew Members and Signal Technicians.

KNOWLEDGE, SKILLS, AND ABILITIES:

- Knowledge of construction principles.
- Knowledge of basic electronic and electrical principles.
- Knowledge of general design standards.
- Knowledge of pertinent federal, state and local laws and ordinances pertaining to roadway, lighting and traffic signal operations.
- Skilled in prioritizing and assigning the work of staff.
- Skilled in preparing and maintaining a variety of records related to operational activities.
- Skilled in reading and interpreting schematics and blueprints.
- Skilled in troubleshooting and resolving problems related to traffic signals.
- Skilled in applying independent judgment, personal discretion, and resourcefulness in interpreting and applying guidelines.
- Skilled in operating applicable tools and equipment of the trade.
- Skilled in performing routine repair and maintenance activities.
- Skilled in performing basic construction activities.
- Skilled in performing manual labor.
- Skilled in observing safety rules and regulations.
- Skilled in operating a computer and related software applications.
- Skilled in communicating effectively with a variety of individuals.
- Ability to change ballast, capacitors, bulbs and fuses in roadway lighting.
- Ability to work with voltages that vary 120/240, 240/480, & straight 480.
- Mental Acuity – ability to make rational decisions through sound logic, deductive reasoning.
- Visual Acuity – color, depth perception, field of vision, close acuity for inspection of small defects, machines, use measurement devices, or fabricate parts.

MINIMUM QUALIFICATIONS:

- IMSA Signals Level I Certification
- AND
- High School Diploma or G.E.D
 - Two years of related traffic signal installation experience

- One year of team lead or supervisory experience

OR

An equivalent combination of education, experience, and training that provides the required knowledge, skills and abilities.

PREFERENCES:

- Work Zone Safety Certification
- IMSA Signals Level II Certification
- Experience with NEMA TS1/TS2
- Class A CDL

WORKING CONDITIONS:

- Frequent climbing, balancing, reaching, sitting, standing, walking, stooping, kneeling, crouching, talking, seeing, hearing, driving and manual dexterity.
- Occasional lifting and carrying of over 100 pounds.
- Work is typically performed in standard office and outdoor environments, with potential exposure to adverse weather conditions.
- Work is performed in high and precarious places and near moving mechanical parts.
- Potential exposure to risk of electrical shock, vibration, fumes and airborne particles.

CONDITIONS OF EMPLOYMENT:

- Must possess a valid motor vehicle driver license.
- Must pass pre-employment drug test.
- Must pass criminal history check.
- Must pass motor vehicle records check.
- Class A CDL within 6 months of employment
- Work Zone Safety Certification within 1 year of employment
- IMSA Signals Level II Certification within 1 year of employment