CITY OF HOUSTON

JOB DESCRIPTION

Job Code: 522.5

Job Title: **TRAFFIC SIGNAL TECHNICIAN I**

Pay Grade: 17

GENERAL SUMMARY:

Performs skilled electronic work in the design, installation, operation, maintenance and repair of equipment and components for traffic signal/control systems and communications systems.

RESPONSIBILITIES:

- Installs, maintains, tests and repairs various electronic traffic signal/control systems and data communication systems and equipment.
- Provides maintenance for lighting, signals, school zone flashers and traffic systems.
- Reviews sites and develops plans for installation; reviews specifications in detail and ensures the electrical work and systems and traffic signal timing comply with City policies, procedures and codes, National Electrical Code (NEC) and the Texas Manual on Uniform Traffic Control Devices (TMUTCD).
- Performs routine maintenance/replacement of lighting, signals, school zone flashers, traffic systems, and equipment according to schedule or as needed.
- Oversees daily operation of host system. Assists in the diagnosis and resolution of traffic signal/control system failures.
- Inspects and troubleshoots traffic signal equipment and components to identify and correct system failures. Programs various types of traffic signal/controls with knowledge of phasing/timing schemes.
- Installs wires, cables, poles, mast arms, cabinets, concrete foundations and other components/equipment.
- Responds to complaints and inquiries related to traffic signal/control systems and data communication systems.
- Prepares and maintains daily work records.
- May perform other duties as assigned.

SPECIFICATIONS:

KNOWLEDGE:
Requires a high school diploma or a GED.

CERTIFICATION/LICENSE:
Must have either an IMSA (International Municipal Signal Association) Level I Traffic Signal Technician Certification or a valid State of Texas Journey Electrician License.

Requires a valid Texas driver's license and compliance with the City of Houston's policy on driving. May require a valid Commercial Driver's License (CDL).

SPECIFICATIONS: (continued)

EXPERIENCE:
Two years of electronic experience, with at least one of the years in traffic, are required.

An Associate's degree or higher in Electronics or field directly related to work being performed; OR a Journey Electrician license may substitute for the experience requirement.

COMPLEXITY:
Work consists of standard procedures and tasks where analytic ability is required in following guidelines, policies and procedures.

IMPACT OF ACTIONS:
Errors in work cause some expense and inconvenience. Work is typically performed under moderate to limited supervision with standard operating procedures. The incumbent functions under general review and at times autonomously, with the supervisor available to answer more difficult questions.

SUPERVISION EXERCISED:

Direct Supervision:
No direct report employees.

Indirect Supervision:
No indirect reports.

CONTACTS:

Internal Contacts:
Level of internal contact is primarily with professionals and supervisors. Interaction involves information exchange and/or simple service activity requiring moderate tact and cooperation.

External Contacts:
Level of external contact is primarily with lower-level service representative and vendors. Interaction requires moderate tact and cooperation; e.g., responding to questions which require some research to provide the correct answer.

PHYSICAL EFFORT:
The position routinely requires lifting of moderately heavy items, such as typewriters or records boxes (up to 40 pounds) and/or very long periods of walking on rough surfaces on a routine basis.

WORK ENVIRONMENT:
There are occasional minor discomforts from exposure to less-than-optimal temperature and air conditions. The position may involve dealing with modestly unpleasant situations, as with occasional exposure to office chemicals and/or extensive use of a video display terminal.

PHYSICAL SKILL:
Requires the ability to make closely coordinated eye/hand movements within very fine tolerance and/or calibration demands; or the ability to make rapid closely coordinated eye/hand movements on a patterned response space within somewhat fine tolerance demands; or the ability to make coordinated eye/hand movements within fine tolerances with large equipment as an extension of the worker.

MISCELLANEOUS:
All duties and responsibilities may not be included in the above job description.
description.

JOB FAMILY:
Traffic Signal Apprentice
Traffic Signal Technician I
Traffic Signal Technician II
Traffic Signal Technician III
Traffic Signal Supervisor