CITY OF HOUSTON

JOB DESCRIPTION

Job Code: 522.8

Job Title: **TRAFFIC SIGNAL TECHNICIAN III**

Pay Grade: 23

GENERAL SUMMARY:

Leads and performs complex, highly skilled electronic work in the installation, operation, maintenance and repair of traffic signal/control systems. Adjusts traffic signal timing according to studies to improve traffic flow.

RESPONSIBILITIES:

- Schedules, assigns and reviews work, and trains technicians in the installation, operation, maintenance and repair of electrical traffic signal systems, controls and equipment.
- Diagnoses electrical traffic signal system failures. Interfaces with vendors to resolve problems with systems. Evaluates and recommends equipment for purchase.
- Adjusts and recommends traffic signal timing according to studies to improve traffic flow. Administers and assists in the development of contracts for traffic signal timing.
- Maintains reports on traffic signal adjustments, statistics, project status, inventory, and installations, maintenance and repairs performed.
- Reviews, evaluates and makes recommendations on electrical traffic signal construction plans and specifications.
- 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).
- Responds to the public through correspondence, telephone, email and public meetings regarding questions and requests for traffic signal timing investigations and modifications.
- Performs other related duties as needed.

SPECIFICATIONS:

KNOWLEDGE:
Requires a high school degree or a GED certificate.

CERTIFICATION/LICENSE:

Must have either an IMSA (International Municipal Signal Association) Level 3 Traffic Signal Technician Certification or a valid State of Texas Journey/Master Electrician License.

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

SPECIFICATIONS: (continued)

EXPERIENCE:
Six years of electronic experience, with at least three of the years in traffic, are required. A Bachelor's degree in Electrical Engineering may substitute for two years of the experience requirement.

COMPLEXITY:
Work is somewhat complex and varied, and may require the simple interpretation of technical and detailed guidelines, policies and procedures.

IMPACT OF ACTIONS:
Errors in work could lead to significant expense and inconvenience. Work is typically performed under limited supervision with alternating periods of relative autonomy and general review. The supervisor generally plays a substantial role in setting objectives and organizing work.

SUPERVISION EXERCISED:

Direct Supervision:
Involves general scheduling and review of work as a "working supervisor" or lead person.

Indirect Supervision:
No indirect reports.

CONTACTS:

Internal Contacts:
Level of internal contact is primarily with professionals and supervisors. Interaction requires moderate tact and cooperation; e.g., scheduling and/or coordinating two personal calendars, resolving problems and/or obtaining necessary information.

External Contacts:
Level of external contact is primarily with lower-level service representative and vendors and occasionally with citizens, visitors and/or mid-level government agencies, guest, vendors and professional contacts with allied organizations. Interaction requires considerable tact and cooperation involving somewhat sensitive issue or problems.

PHYSICAL EFFORT:
The position requires stooping, bending and/or lifting of items of up to 30 pounds with occasional periods of walking on rough surfaces.

WORK ENVIRONMENT:
There are routine discomforts from exposure to moderate heat, cold, moisture/wetness and unpleasant air conditions. The position may involve routine exposure to soiled materials and light chemical substances such as cleaning solutions.

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.

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

Effective: August 2004
Revised: July 2025