



CITY OF HOUSTON

JOB DESCRIPTION

Job Code: 542.2

Job Title: **INSTRUMENT TECHNICIAN**

Pay Grade: 10

GENERAL SUMMARY:

Monitors, maintains and services sophisticated instruments and field equipment utilized in the detection, sampling and analysis of air pollutants and/or wastewater.

RESPONSIBILITIES:

- Overhauls, calibrates, maintains and installs various instruments, chlorination and pneumatic equipment in the field.
- Inspects, tests and evaluates instruments and equipment for proper operation or faulty maintenance.
- Maintains records of work orders, and incoming/outgoing parts.
- Performs other technical repairs, installations, maintenance as directed; may perform some non-technical assignments.

SPECIFICATIONS:

KNOWLEDGE:

Specialized training in principles, procedures, practices, routines or techniques in a specific area or trade which might normally be acquired through up to 18 months of education or training beyond the high school level. Vocational competence in the operation of mechanical or electronic equipment may be required.

EXPERIENCE:

No experience is required.

COMPLEXITY:

Work consists of fairly standard procedures and tasks where basic analytic ability is required, as in the comparison of numbers and simple facts in selecting the correct action.

IMPACT OF ACTIONS:

Errors in work typically lead to major operational failures and significant costs. Work is typically performed under close to moderate supervision of routine duties to ensure completion of tasks. The supervisor is generally close by to answer questions.

SUPERVISION EXERCISED:

Direct Supervision:

No direct report employees.

Indirect Supervision:

No indirect reports.

SPECIFICATIONS: (continued)

CONTACTS:

Internal Contacts:

Level of internal contact is primarily with the clerical and technical staffs. Interaction involves routine information exchange and/or simple service activity requiring common courtesy; e.g., answering questions, giving directions in response to simple requests.

External Contacts:

Level of external contact is primarily with lower-level service representative and vendors. Interaction involves routine information exchange and/or simple service activity which requires common courtesy; e.g., directing calls, and answering simple questions.

PHYSICAL EFFORT:

The position involves considerable physical exertion, such as regular climbing of ladders, lifting of heavy objects (up to 80 pounds) on a highly frequent basis and/or assuming awkward positions for long periods of time.

WORK ENVIRONMENT:

There are routine exposures to significant levels of heat, cold, moisture and air pollution. The position may involve periodic exposure to chemical substances and physical trauma of a minor nature such as cuts, bruises and minor burns.

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:

Instrument Technician
Senior Instrument Technician

Effective: October 1990

Revised: April 1992