

**CITY OF CONCORD
CLASS SPECIFICATION**

CLASS TITLE: FIRE ALARM/TRAFFIC SIGNAL TECHNICIAN
DEPARTMENT: FIRE
REPORTS TO: FIRE ALARM/TRAFFIC SIGNAL SUPERVISOR

JOB CODE: 3121
DATE: 2/08

JOB SUMMARY:

Performs skilled electrical work in the installation, design, maintenance, optimization, and repair of fire alarm, internal data, and voice communication and traffic control systems.

ESSENTIAL JOB FUNCTIONS:

Installs, maintains, and repairs fire alarm, traffic signal, internal data, fiber optic, and voice communication systems.

Operates or uses mechanical or manual equipment necessary for performance of the job, including aerial bucket/winch truck, construction tools, climbing hooks, ladders, and electric and gas detectors.

Assists in the review and specification of new systems; conducts inspections of systems and connections after installation.

Performs periodic testing of all signal and emergency backup power systems, including station gen. and dispatch building UPS system.

Receives repair items/parts from vendors; assists in maintaining inventory, files, and records.

Installs underground and overhead cables or any additions to the municipal fire alarms system and traffic control devices.

Inspects and tests fire alarms and the traffic control system; makes recommendations for improvements.

Maintains required records and logs.

Under the direction of the Fire Alarm/Traffic Signal Supervisor, meets and confers with vendors, contractors, and other public officials on fire alarm and traffic issues.

May serve as a member of a specialized team.

May perform fire dispatching duties in an emergency basis.

Acts on behalf of supervisor during his/her absence for a limited period of time.

Performs other related duties as assigned.

MATERIAL AND EQUIPMENT USED:

Fire Alarm Systems
Communication and Construction Vehicles
General Office

Radio Equipment
Line Construction Tools and Equipment
Traffic Control Systems Hand Tools

MINIMUM QUALIFICATIONS REQUIRED:

Education and Experience:

Trade school education sufficient to obtain Electrician.

Two years experience which included work associated with the electrical or electronics field and experience in pole and underground cable construction techniques and two to three years of progressively responsible experience; or,

Any combination of education, training and experience which provides the required knowledge, skills and abilities required for the job.

Licenses and Certifications:

Licensed Electrician.

IMSA Fire Alarm Tech Level II.

IMSA Traffic Signal Tech Level II.

Class B New Hampshire Driver's License with Addendum.

KNOWLEDGE, SKILLS, AND ABILITIES:

Knowledge of:

Tools, materials, and practices of fiber optics, electrical, and electronic maintenance and repair techniques.

Communications line construction principles and practices.

Component parts of solid state and vacuum tube electronic and electromechanical devices used in computerized traffic control systems.

Digital, integrated, and solid state circuitry.

Record keeping, report preparation, filing methods, and records management techniques.

Advanced mathematics with the ability to read and understand electronic specifications.

Electronics and electrical circuits.

Specifications, construction, and operation of modern solid-state integrated circuit control apparatus.

Skill in:

Design, construction, installation, and maintenance of traffic control, telephone communication, pc hardware and software, fiber optics, and alarm monitoring systems.

Use and maintenance of tools and testing equipment.

Using tact, discretion, initiative, and independent judgment within established guidelines.

Organizing work, setting priorities, meeting critical deadlines, and following up on assignments with a minimum of direction.

Mental and Physical Abilities to:

Read and interpret documents such as safety rules, operation and maintenance instructions, and procedure manuals.

Solve practical and unique problems involving variables that are not always concrete in situations that, at times, can have little or no standardization.

Interpret a variety of instructions in written, oral, diagram, or schedule form.

Work from sketches and blueprints.

Read and interpret schematic drawings.

Use testing equipment to diagnose malfunctions of a computerized traffic control system.

While performing the essential functions of this job, the employee is frequently required to stand, walk, sit, reach with hands and arms, stoop, kneel, crouch, crawl, talk, hear, lift and/or move up to 100 pounds or more, and use hands to finger, handle, or feel.

Working Conditions:

While performing the essential functions of this position, the employee is frequently required to ascend or descend, maintain body equilibrium, bend, reach and/or extend in any direction, and work with the hand, hands, or fingers. The employee may be exposed to outdoor weather conditions of high wind, rain, snow, extreme heat or cold, work near moving mechanical parts, risk of bodily injury from electrical shock or from falling from high, exposed places, and fumes or odors that may affect the respiratory system, eyes, or skin.

The incumbent's working conditions typically range from moderate to loud.

This class specification should not be interpreted as all inclusive. It is intended to identify the essential functions and requirements of this job. Incumbents may be requested to perform job-related responsibilities and tasks other than those stated in this specification. Any essential function or requirement of this class will be evaluated as necessary should an incumbent/applicant be unable to perform the function or requirement due to a disability as defined by the Americans with Disabilities Act (ADA). Reasonable accommodation for the specific disability will be made for the incumbent/applicant when possible.