



Haverhill

Human Resources Department, Room 306

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(updated copy)

JOB # 2026-2

**PLEASE POST
ANTICIPATED OPENING**

POSITION:

**Traffic Signal & Fire Alarm Systems Maintainer
Fire Safety Services**

HOURS OF WORK:

To Be Determined

SALARY:

\$1,029.72-\$1,292.43 per week

(According to Fire Union Group salary scale)

SUMMARY:

The Municipal Fire Department seeks a highly skilled **Master Electrician** with specialized experience in **traffic signal systems** and **municipal fire alarm networks**. The successful candidate will be responsible for the installation, maintenance, repair, inspection, and modernization of electrical and low-voltage systems critical to public safety and emergency operations. This position ensures reliable functioning of intersection control devices, fire alarm circuits, street boxes, communication pathways, and related infrastructure.

KEY RESPONSIBILITIES:

Municipal Fire Alarm System Maintenance

- Install, maintain, troubleshoot, and repair municipal fire alarm circuits, street fire alarm boxes, radio fire alarm boxes, and supervisory systems.
- Inspect and service fire alarm wiring, underground conduit systems, terminal cabinets, pull stations, and alarm transmission equipment.
- Ensure system integrity and reliability to support timely dispatch and emergency communications.
- Conduct periodic testing and performance verification of municipal fire alarm network components. Knowledge of Gamewell Master Boxes, and M/K Form 4 Panels, RO-4 Digital readouts, Mini T-2 Transmitters, and button Panels.
- Respond to system failures, false alarms, and emergency outages while maintaining safety and compliance with NFPA standards.
- Collaborate with fire department dispatch, communications specialists, and third-party vendors.
- Knowledge of Bi-Directional Amplifiers (BDA) systems requirements.

Traffic Signal System Maintenance

- Maintain, troubleshoot, and repair traffic signal control equipment, including controllers, cabinets, signal heads, pedestrian systems, vehicle detection devices, conflict monitors, and wiring.
- Perform preventive maintenance on signalized intersections according to municipal standards.
- Diagnose electrical, mechanical, and communication failures in signal systems; implement corrective action swiftly to ensure safe traffic operations.
- Assist with intersection upgrades, timing adjustments, loop or radar detection installation, and emergency preemption systems.
- Maintain accurate records of maintenance activities, signal inventories, and intersection performance.
- Coordinate with public works, engineering departments, and outside contractors as required



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General Electrical Duties

- Maintain compliance with national, state, and local electrical codes and safety regulations.
- Read and interpret blueprints, schematics, wiring diagrams, and technical manuals.
- Prepare work reports, maintenance logs, and documentation for regulatory or operational review.
- Participate in emergency repairs outside regular working hours.
- Provide technical guidance to junior staff or apprentices as required.

The duties listed above are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to the position.

REQUIRED QUALIFICATIONS:

- **J journeyman (Class B) license** (state-recognized).
- Minimum **5-7 years of experience** in electrical systems maintenance, including work with traffic signal systems and municipal or institutional fire alarm networks.
- Proficiency in troubleshooting both high-voltage and low-voltage control circuits.
- Demonstrated experience with traffic controllers, conflict monitors, vehicle detection, and emergency preemption equipment.
- Experience working with municipal fire alarm systems such as telegraph circuits, street boxes, radio boxes, or fiber-based alarm transmission systems.
- Ability to work at heights, in confined spaces, and in varying weather conditions.
- Valid driver's license; CDL may be required depending on department equipment.
- Bucket truck (VMERADs), Vehicle Mounted Elevating and Rotating Aerial Device Certification

PREFERRED QUALIFICATIONS:

- IMSA Traffic Signal Technician certification (Level II or III preferred).
- NICET Fire Alarm Systems certification (Level II or higher).
- Experience with SCADA, fiber optics, or municipal communication networks.
- Familiarity with NFPA, MUTCD, and state transportation standards.

COMPETENCY:

- Strong analytical and diagnostic skills.
- Ability to work independently and respond quickly under emergency conditions.
- Professional communication skills and teamwork with fire, public works, and engineering personnel.
- Commitment to public safety and infrastructure reliability.

CLOSING DATE: OPEN UNTIL FILLED

APPLICATION IS AVAILABLE ONLINE AT:

<https://www.haverhillma.gov/government/job-opportunities/>

Application can be saved and sent as attachment when applying online. Cover letter, application and resume should be sent to: CITY OF HAVERHILL HR DEPARTMENT AT HRD@HAVERHILLMA.GOV