

Title: Fire Suppression System Technician II
PG: 47
Status: Civil Service
Position Reports to: Fire Suppression System Foreman
Department: Public Works

Class Code: 7724
Date: 09/08

GENERAL DESCRIPTION OF CLASS:

This is a highly skilled technical position working in the fire suppression system field on all City building facilities. An employee in this position has the responsibility for installing, inspecting, maintaining, repairing, and modifying or assisting in the engineering functions of digital and analog fire protection detection systems, pneumatic, mechanical and auxiliary equipment, microprocessors and programmable equipment, and other related fire protection systems and devices. Employees in this classification must be able to fabricate, install, inspect, alter, repair and inspect water sprinkler systems, water spray systems, foam-water sprinkler systems, foam-water spray systems, combination standpipes and sprinkler risers and electrical/diesel fire pumps. Task assignments require technical competence to the degree of performing actual work unsupervised with minimal follow up requirements.

ESSENTIAL FUNCTIONS:

1. Performs troubleshooting, repairs, modifications, calibrations, and preventive maintenance on a wide variety of complex motor control circuits, complex fire protection equipment including pneumatic, digital, analog, programmable, mechanical and other auxiliary equipment related to fire protection alarm panels or systems.
2. Performs troubleshooting, repairs, modifications, calibrations, installations and preventive maintenance on fire protection suppression systems.
3. Performs troubleshooting, repairs, modification, calibrations, installations and preventive maintenance to electrical and diesel fire water pumps and their controls.
4. Installs, troubleshoots, and repairs solid state communications equipment.
5. Performs system lineups on fire systems to isolate various portions of the system for maintenance and repairs.
6. Performs fire extinguisher six (6) year maintenance, hydro, and annual inspections in accordance with NFPA 10.
7. Performs weekly, monthly, quarterly, and annual inspections to water based sprinkler systems in accordance with NFPA 25.
8. Performs annual inspection to fire alarm panels in accordance with NFPA 72 series.
9. Maintains detailed work reports.
10. Makes on the spot decisions during critical periods where he/she is the only authority available.

ADDITIONAL RESPONSIBILITIES:

1. Perform related work as required.

KNOWLEDGE, SKILLS AND ABILITIES:

1. Considerable knowledge and practical applications of the concepts and principles of pneumatic and electronic automatic process controls, control mode and calibration techniques.
2. Knowledge of the symbols and standard practices used in process and instrument flow diagrams and the ability to use technical libraries to determine state-of-the-art methods for instrument selection, application, maintenance, troubleshooting and problem analysis.
3. Considerable knowledge in the use of troubleshooting and test equipment; including voltmeters, ammeters, ohm meters, sensitivity tester, and hydrostatic test equipment.
4. Knowledge of the principles of operations, terminology, safety considerations and applications for complex fire alarm detection panels and suppression systems.

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5. Knowledge of the principles of operations, terminology, safety considerations and applications of electrical and diesel driven fire water pumps.
6. Considerable skills in reading, drawing and understanding electrical, mechanical blueprints, schematics and investigative skills if none are available.
7. Thorough knowledge of the NFPA standards, Florida statutes and Federal regulations relating to Fire Protection.
8. Knowledge of occupational hazards and necessary safety concerns.
9. Basic computer skills and keyboard knowledge.

WORKING ENVIRONMENT/CONDITIONS:

Requires sedentary work that involves walking or standing some of the time; exerting up to 10 pounds of force on a recurring basis, routine keyboard operations.

The job risks exposure to no significant environmental hazards.

The job requires normal visual acuity, and field of vision, hearing, speaking, color perception, sense of taste, sense of smell, depth perception, and texture perception.

QUALIFICATIONS (EDUCATION, TRAINING, AND EXPERIENCE):

1. High school diploma or its equivalent.
2. Five (5) years experience in the field of fire suppression system repair and maintenance.
3. An equivalent combination of education and experience that is determined to be directly related to the foregoing specific requirements may be substituted.

SPECIAL REQUIREMENTS:

1. Must possess and maintain a valid state of Florida's driver's license.
2. Must maintain a valid home telephone number.
3. Must be willing and able to work various shifts or schedules on a rotating or as need basis.
4. Must be willing to work overtime as necessary to maintain required equipment operations.
5. Must possess a State of Florida fire extinguisher permit and be registered as a sprinkler system inspector.
6. May be required to work overtime, or alternate hours, as necessary for the efficient operation of the department. Position may be designated as Mission Critical by Department Director.