

City of Fort Worth, Texas Job Description

Classification Title	FD Protection Specialist		
Job Code:	PR1530	Job Family:	Professional
Pay Grade	609	Date Reviewed:	07/10/15
FLSA Status	Exempt	Date Revised:	

GENERAL SUMMARY

Designs fire protection systems for buildings and industrial complexes. Analyzes the level of fire protection in commercial or residential buildings and recommends modifications to safety systems; and conducts research in the areas of fire propagation, detection and suppression.

ESSENTIAL DUTIES & RESPONSIBILITIES

The intent of this job description is to provide a representative summary of the major duties and responsibilities performed by incumbents of this job. Incumbents may be requested to perform job-related tasks other than those specifically presented in this description.

1. Designs effective fire protection systems for buildings and industrial complexes including automatic suppression or fire alarm systems.
2. Analyzes the level of fire protection in commercial or residential buildings; and establishes fire safety or evacuation procedures for buildings that satisfy fire safety objectives as set by the owner.
3. Ensures that existing fire prevention and protection facilities and practices are adequate and properly maintained.
4. Provides training to fire department staff on the installation, inspection, and testing of fire protection systems, application of the Fire Code, new fire protection technology and new fire protection requirements.
5. Reviews construction drawings; conducts inspections of industrial plants; prepares specifications for fire protection of special hazards; and ensures compliance with applicable fire codes.
6. Reviews, evaluates and approves building plans and specifications, construction drawings, fire protection system designs, and chemical, gas and flammable liquids installations. Assists Fire Inspectors in performing field inspections of fire alarms, access control and special hazard systems.
7. Evaluates new building materials, industrial processes and special hazards; and establishes safeguards to ensure reasonable levels of safety and property protection.
8. Responds to major fires and other emergency incidents to provide technical assistance to Incident Commanders in areas such as building construction,

structural collapse, fire development, water supply, fire protection systems, and hazardous materials.

9. Attends a variety of planning meetings; interacts and confers with staff engineers from other engineering disciplines and various management staff; and provides technical advice to architectural staff.
10. Provides walk-in site reviews for fire protection requirements for architects, engineers, project developers, owners/managers, contractors and city staff to expedite permit approval for construction projects.
11. Prepares analytical and statistical reports on operations and activities.
12. Performs other related duties as required.
13. Adheres to assigned work schedule as outlined in the Department and City attendance policies and procedures; ensures all behaviors comply with the City's Personnel Rules and Regulations.

KNOWLEDGE, SKILLS & ABILITIES

- **Knowledge of:**

- Operational characteristics, services and activities of a fire protection system evaluation program.
- Operational characteristics of various fire protection apparatus and equipment.
- Operational characteristic of fire alarm, access control and special hazard system.
- Theories, principles and practices of fire engineering.
- Principles and practices of modern fire prevention and inspection.
- Methods and techniques of construction plan evaluation.
- Properties of various flammable, combustible, and hazardous materials.
- Pertinent Federal, State and local laws, codes and regulations governing buildings and fire inspections.
- Firefighting operations and tactics.

- **Skill in:**

- Technical writing.
- Organization and time management.
- Interpersonal relations.

- **Ability to:**

- Communicate clearly and effectively, both orally and in writing.
- Design effective fire protection systems for buildings and industrial complexes.
- Perform field inspections of buildings and fire protection systems.
- Establish fire safety or evacuation procedures for buildings.
- Review, evaluate and approve building plans and specifications, construction drawings and fire protection system designs.
- Establish safeguards to ensure reasonable levels of safety and property protection.
- Provide technical assistance to Incident Commanders at major fires and other emergency incidents.

- Apply codes and standards to sound engineering across various projects.
- Resolve construction issues and remain within the Fire Code and NFPA standards.
- Ensure fire protection system compliance with applicable fire codes.
- Read and interpret building plans.
- Conduct code research.
- Interpret and apply Federal, State and local policies, laws and regulations.
- Prepare clear and concise reports.
- Establish and maintain effective working relationships.

MINIMUM JOB REQUIREMENTS

Bachelor's degree from an accredited college or university with major course work in fire protection engineering or a related field and three years of increasingly responsible fire protection engineering experience.

OTHER REQUIREMENTS

Valid Texas driver's license.

Possession of, or ability to obtain, certification as an Engineer-in-Training (EIT) and/or registration as a professional Engineer, in the State of Texas.

WORKING CONDITIONS

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Depending on assignment, positions in this class typically require touching, talking, hearing, seeing, grasping, standing, stooping, kneeling, crouching, reaching, walking and repetitive motions.

PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Light Work – Depending on assignment, positions in this class typically exert up to 20 pounds of force occasionally, up to 10 pounds of force frequently, and/or a negligible amount of force constantly having to move objects. If the use of arm and/or leg controls requires exertion of forces greater than that for the Sedentary Work category and the worker sits most of the time, the job is rated Light Work.