

Career Service Authority

Fire Protection Engineer

Revised Date 6/1/99
Revised By Anderson/Brown
FSLA Code Exempt
Est. Date 09/16/95

General Statement of Duties

Reviews and approves life safety system use and fire code provisions for new and existing buildings and provides technical expertise in fire suppression and prevention and life safety system use.

Job Responsibilities and Knowledge, Skill and Ability Requirements

1. Reviews and recommends approval, modification, or denial of plans for fire protection and life safety systems in buildings utilizing the Denver Building and Fire Codes.
 - *Skill in reading blueprints, construction plans, and specifications to ensure compliance with fire and building codes.*
 - *Skill in exercising initiative, judgment, and decision making in solving problems and meeting organizational objectives.*
2. Reviews plans and processes which utilize hazardous chemicals and/or materials to ensure proper fire safety provisions are included.
 - *Knowledge of safety practices and procedures sufficient to be able to ensure compliance with proper fire safety provisions.*
3. Provides technical assistance and guidance to Fire Department personnel regarding fire protection and fire resistive materials in accordance with the Denver Building and Fire Codes.
 - *Skill in utilizing the principles and practices of effective and persuasive communications to elicit information, negotiate problem resolution, and/or garner support for various programs or policies. .*

4. Participates in inspections of existing and new buildings to ensure compliance with the Denver Building and Fire Codes.
 - *Skill in performing investigations and field inspections to ensure compliance with specific codes.*
5. Assists in the investigation of fires where possible structural, mechanical, electrical, fire alarm, fire extinguishing, or other fire safety system failures are suspected.
 - *Skill in investigating and determining the probable cause of failure of equipment or personnel.*
6. Develops course materials and provides instruction to Denver Fire Department personnel on life safety systems and proper application of fire suppression systems.
 - *Knowledge of life safety systems and fire suppression techniques sufficient to be able to instruct others in their proper application.*
 - *Skill in utilizing the principles and practices of effective and persuasive communications to elicit information, negotiate problem resolution, and/or garner support for various programs or policies*
7. Provides resource information and building and fire code requirements to developers, owners, contractors, and City agencies concerning the use of fire safety systems.
 - *Skill in utilizing the principles and practices of effective and persuasive communications to elicit information, negotiate problem resolution, and/or garner support for various programs or policies*
8. Assists in the development of fire protection and life safety ordinances by reviewing fire protection standards from other jurisdictions, providing technical information, and making recommendations.
 - *Skill in utilizing the principles and practices of effective and persuasive communications to elicit information, negotiate problem resolution, and/or garner support for various programs or policies*
 - *Skill in exercising initiative, judgment and decision making in solving problems and meeting organizational objectives.*

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9. Performs other related duties as assigned or requested.

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Any one position may not include all of the duties listed. However, the allocation of positions to this class will be determined by the amount of time spent in performing the primary duties.
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Job Requirements

Level of Supervision

May supervise or coordinate the work of engineers, technicians, and others who assist in specific projects or programs.

Guidance and Decision Making

Guidelines are generally but not always clearly applicable, requiring the employee to exercise judgment in selecting the most pertinent guidelines, interpret precedents, adapt standard practices to differing situations, and recommend alternative actions in unprecedented situations. Work assignment is performed within an established framework under general instructions. Employee is responsible for determining time place and sequence of action to be taken. Unusual problems or proposed deviations from guidelines, practices or precedents may be discussed with the supervisor before being initiated. Completed work is reviewed for soundness of judgment, conclusion, adequacy and conformance to policy.

Interpersonal Communications

Contacts of a non-prescribed nature involving the negotiation and resolution of non-routine problems encountered and where exceptional degrees of discretion and judgment are required in carrying out the programs and policies of the organization.

Physical Demands

Sitting: remaining in the normal seated position.
Carrying: transporting an object, usually by hand shoulder.
Handling: seizing, holding, grasping or otherwise working with hand(s).
Talking: expressing or exchanging ideas by means of spoken words.
Hearing: perceiving the nature of sounds by the ear.

Vision Requirements

Near Acuity: ability to see clearly at 20 inches or less.

Mental Demands

Mathematical Reasoning
Memorization
Oral Comprehension
Spatial Orientation
Written Comprehension

Working Conditions

Pressure due to multiple calls and inquiries
Subject to many interruptions

Minimum Education

Baccalaureate Degree with major course work in engineering or architecture.

Minimum Experience

Two years of professional experience in fire protection and life safety evaluation, design, engineering, or installation.

Licensure and Certification

Registration as a Professional Engineer (PE) by the Colorado State Board of Registration for Professional Engineers at the time of application. Registration as a Professional Engineer by another state will be accepted in lieu of this requirement, provided the applicant is registered by the State of Colorado by completion of the probationary period. OR

Registration as a Licensed Registered Architect at the time of application. Registration by another state will be accepted in lieu of this requirement, provided that the applicant must be registered by the State of Colorado by completion of the probationary period. Possession of a valid Colorado Class "R" Driver's License at the time of application.