

Fire Protection Engineer

DEFINITION

The fundamental reason for the existence of this classification is to participate directly in the review of building and development plans for compliance with State and local fire codes and other permit requirements, to conduct highly technical fire prevention activities, and to provide highly technical staff assistance.

The Fire Protection Engineer is a single position professional classification in the Fire Prevention Bureau of the Fire Department with responsibility for performing complex plan review, fire & life safety inspections, and fire prevention activities. It is distinguished from the classification of Fire Marshal in that the Fire Marshal is the Fire Prevention Division head and the Fire Protection Engineer works under the Fire Marshal's direction. The Fire Protection Engineer, for the purpose of this classification, also performs field work typical of a Fire Inspector as a portion of the required duties.

SUPERVISION RECEIVED AND EXERCISED

Receives administrative general direction from the Fire Chief responsible for the Fire Prevention Division of the Oroville Fire Department.

This classification has no direct supervisory responsibilities, but may provide technical supervision to other fire prevention classifications.

EXAMPLES OF ESSENTIAL FUNCTIONS - *Essential functions may include, but are not limited to, the following:*

The job duties and responsibilities represented in this job description in no way imply that these are the only duties to be performed. Individuals occupying this position will be required to follow any other job related instructions and to perform any other job related duties requested by a supervisor. Specific duties and responsibilities include, but are not limited to:

Conduct comprehensive and technical plan reviews for fire resistive requirements, code compliance, access, hazardous materials, zoning restrictions and permit requirements.

Confer with builders, engineers, contractors, architects and others involved in development and construction activities regard fire & life safety considerations.

Conduct construction and highly technical fire & life safety-related field inspections.

Coordinate plan review activities with other City departments and with outside agencies.

Prepare reports and written correspondence.

Assess fire & life safety-related fees for new development and construction activities.

Participate in the evaluation of existing fire & life safety conditions and federal, state, and local codes applicable to fire & life safety.

Recommend policies, procedures, and ordinance revisions as necessary.

Develop and implement procedural methods and practices for reviewing plans.

Research complex problems, analyze various approaches and implement solutions; prepare and maintain records and reports.

Develop and conduct training programs and group presentations related to fire prevention.

Represent the Department before citizens and groups.

Provide information to the public concerning fire prevention practices and procedures.

Participate in both highly technical and routine fire & life safety inspection activities.

MINIMUM QUALIFICATIONS

Knowledge of:

-Principles, methods, and practices of modern fire prevention, fire protection engineering, fire suppression activities, and new construction technology.

-Plan review and application of local, state, and federal codes and regulations.

-Mechanical, chemical, and related characteristics for a wide variety of flammable and explosive materials and hazardous substances.

-International Fire Code and how it inter-relates to the International Building Code, and other applicable codes and State laws.

-Advanced methods of research, program analysis and report preparation.

-Advanced public relations techniques.

-English language usage, spelling, grammar and punctuation.

-Modern office procedures and methods including common office software and hardware.

-Advanced records management principles and practices.

Ability to:

- Participate in a comprehensive fire prevention program.

- Make comprehensive studies and prepare reports and recommendations.

- Read and interpret construction plans and specifications; detect deviations from plans, regulations, and standard safety procedures.

- Properly interpret and make decisions in accordance with laws, regulations and policies.

- Perform fire prevention inspections for a variety of buildings and structures.

- Enforce codes, ordinances, and regulations pertaining to fire prevention and hazardous materials with firmness and tact.

- Represent the Fire Department to contractors, engineers, architects and developers and in public meetings.

- Interact with a variety of individuals from different socio-economic, ethnic and cultural backgrounds in sensitive or difficult situations.

- Communicate clearly and concisely, both orally and in writing.

- Analyze problems, identify alternative solutions, determine consequences of proposed actions and implement recommendations in support of goals.

- Appraise situations and people accurately and quickly, and adopt an effective course of action.

- Perform mathematical computations with accuracy.

- Make effective public presentations.

- Meet the physical requirements necessary for successful job performance.

EXPERIENCE

Sufficient fire prevention, inspection, and plan review experience to demonstrate possession of the knowledge and abilities listed above.

EDUCATION

Bachelor's degree from an accredited college or university, with major work in fire protection engineering, or a closely related field.

A combination of experience and education that prove required knowledge and abilities competence would also be qualifying.

ADDITIONAL REQUIREMENTS

Possession of a valid California driver's license.

A certificate of registration as a professional engineer in Fire Protection Engineering in the State of California is required. The certificate of registration may be from another state having reciprocity with California, but registration with the State of California must be obtained within eighteen (18) months of appointment.

TYPICAL WORKING CONDITIONS

Work is performed in an office and field environment. Incumbent drives on surface streets and may be exposed to traffic and equipment hazards, fire hazards, electrical currents, air contaminants, adverse weather conditions, temperature and noise extremes, wetness, violence, heights, explosives, fumes, dusts, odors, toxic or caustic chemicals, pathogenic substances, vibration.

TYPICAL PHYSICAL REQUIREMENTS

Requires the mobility to work in an office and field environment. Requires the ability to sit at desk for long periods of time and intermittently walk, stand, run, climb, balance, bend, squat, crawl, kneel, twist and reach while performing office and/or field duties; frequently lift and/or move up to 25 pounds and occasionally up to 100 pounds; use hands to finger, handle or operate objects, tools or controls; perform simple grasping and fine manipulation. Must be able to maintain effective audio-visual discrimination and perception needed for making observations, communicating with others, reading and writing, and operating office equipment. Must be able to use a telephone to communicate verbally and a keyboard to communicate through written means, to review information and enter/retrieve data, to see and read characters on a computer screen. Requires driving a motor vehicle.

This class specification lists the major duties and requirements of the job and is not all-inclusive. Incumbents may be expected to perform job-related duties other than those contained in this document.