

FIRE PREVENTION ENGINEER

DEFINITION

Under direction, supervises and directs fire inspection personnel; and performs difficult professional engineering review, approval, and testing of fire protection equipment and systems.

SUPERVISION RECEIVED/EXERCISED

Receives supervision from the Deputy Chief or designee. Exercises supervision over assigned subordinate staff.

DISTINGUISHING CHARACTERISTICS

Fire Prevention Engineer advises and directs subordinates engaged in plan checking and inspecting fire safety systems, buildings, structures, and properties for fire and life safety hazards and for compliance with local and state codes, ordinances, and laws. Duties also include providing fire protection consultation services to owners, contractors, designers, architects, and engineers. This class is distinguished from other engineering classes by its special emphasis on fire protection systems engineering.

EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES

(may include, but not limited to, the following:)

Supervises the work of personnel engaged in plan checking and inspection of fire safety systems; monitors work performed for accuracy and completeness.

Makes recommendations and provides professional advice on a variety of fire protection requirements and procedures.

Reviews building plans for adequacy of exit facilities, construction, fire resistive qualities of materials, and fire protection appliances and equipment.

Provides technical direction and advice to City staff on the installation, maintenance, and operation of fire protection systems.

Advises and consults with City and county governmental staff, fire protection districts regarding new building projects, public works, public utilities, structure rehabilitation, and/or other applicable issues.

Consults with contractors, fire protection design engineers, architects, developers, and property owners regarding technical fire prevention issues.

Reviews the City's Fire Prevention Codes for adherence to acceptable fire protection engineering; recommends Code revisions.

Provides for and participates in training for subordinate inspection personnel.

Makes field surveys of the more complex buildings.

Prepares draft fire and building code amendments; prepares reports detailing fire safety enhancements within the community.

Participates in the selection of subordinate staff; trains and evaluates subordinate staff; recommends disciplinary actions.

May represent the City as an expert witness before boards, commissions, and in court.

Performs related duties as required.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Knowledge of:

Modern principles of fire protection engineering.

Recognized national fire protection standards, codes, and laws relating to fire safety and prevention.

Fire hazards in various manufacturing and industrial processes.

The City water supply and delivery systems.

Fire inspection methods and techniques.

Inspection and testing procedures of fire protection systems and equipment, including fire sprinkler and alarm installation methods.

Fire safety systems utilized in residential, commercial, industrial, and institutional facilities.

Fire behavior.

Ability to:

Interpret and apply applicable laws, rules, regulations, codes, and/or standards.

Accurately perform engineering and mathematical computations.

Read and interpret plans, specifications, blueprints, maps, and related documents.

Effectively plan, assign and supervise the work of inspection personnel.

Establish and maintain effective working relationships.

Communicate effectively orally and in writing.

Prepare and maintain accurate and concise records, reports, correspondence, and other written materials.

MINIMUM QUALIFICATIONS

Completion of 60 units from an accredited college or university;

AND

Possession of California State Fire Training Plans Examiner professional certificate;

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OR

Completion of 60 units from an accredited college or university;

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State of California Registration as a Fire Protection Engineer;

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OR

State of California Registration as an electrical or mechanical engineer;

AND

Two years of professional experience in the review or design of fire protection systems, one year of which include, lead or supervisory work experience;

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OR

Completion of 60 units from an accredited college or university;

AND

Permanent status and current appointment as a Supervising Fire Prevention Inspector with the City of Fresno;

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OR

Completion of 60 units from an accredited college or university;

AND

Permanent status and current appointment with at least 3 years of experience as a Senior Fire Prevention Inspector with the City of Fresno.

Special Requirements

Possession and continued maintenance of a valid California Driver's License at time of appointment.

Completion of the following courses within 18 months of appointment: ICS 100 & 200, IS-700, & 800.

Completion of a Bachelor's Degree from an accredited college or university within 36 months after appointment.

Desirable Qualifications:

California State Fire Training (CSFT) Management 1 and 2A.

California State Fire Training, Plans Examiner professional certificate.

APPROVED: _____ DATE: _____
Director of Personnel Services

ATS:GAK:CH:3/10/99
Revised: 1/16/14