



CLASS SPECIFICATION

FIRE ENGINEER

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are **not** intended to reflect all duties performed within the job.*

SUMMARY DESCRIPTION

Under general supervision typically from Fire Captain, safely and effectively operate fire apparatus and other assigned vehicles during emergency and non-emergency situations, including responding to Emergency Medical calls; wildland and structure fires, and other emergency calls for service; lead assigned crew in the performance of fire-fighting duties; perform routine maintenance and make minor repairs on vehicles, equipment, and the Fire Station; perform fire prevention tasks; perform EMT duties; perform rescues and to do other related work.

IDENTIFYING CHARACTERISTICS

This classification is journey level distinct from Fire Captain, which is responsible for supervising a truck or engine crew, and distinct from Firefighter, which is responsible for fire suppression and rescue operations. A Fire Engineer has primary responsibility for the proper operation and maintenance of assigned fire equipment and apparatus. Work requires a good understanding of first aid techniques and lifesaving methods. Incumbents may occasionally perform duties of Fire Captain in his/her absence.

REPRESENTATIVE DUTIES

The following duties are typical for this classification. Incumbents may not perform all of the listed duties and/or may be required to perform additional or different duties from those set forth below to address business needs and changing business practices.

1. Operates pumps, and all apparatus to effectively suppress fires, determining the best location for apparatus; connects and lays hose lines and determines the correct operating pressures and water flows; makes minor adjustments and repairs.
2. Drives and maintains fire apparatus.
3. Assists with the overhaul, salvage, and clean-up operations at any incident.
4. Deliver ALS/BLS as an EMT/Paramedic.
5. Selects route to be taken to fire and locates apparatus at proper place for efficient and safe operations.
6. Answers general questions of the public and provides information.
7. Prepares reports; and obeys and transmits, as required, all orders of superior.
8. May supervise subordinate personnel in the absence of the Fire Captain.
9. Performs related duties as assigned.

QUALIFICATIONS

The following generally describes the knowledge and ability required to enter the job and/or be learned within a short period of time in order to successfully perform the assigned duties.

Knowledge of:

- Operations, services, and activities of an emergency service operation, including fire suppression, fire prevention, emergency medical services, disaster preparedness, hazardous materials response, and associated programs, services, and operations.
- Fire science theory, principles, and practices, and their application to a wide variety of emergency service operations, including fire suppression, fire prevention, and fire investigation.
- Operating characteristics, uses, and maintenance requirements of pump engines, fire apparatus, and other firefighting and emergency medical apparatus and equipment.
- Mechanical and hydraulic principles of fire apparatus.
- Modern and complex principles and practices of firefighting.
- Principles and practices of disaster preparedness, response, and recovery.
- Methods and techniques of basic life support and rescue.
- Hazardous materials and chemical spill response techniques.
- Principles, methods, and techniques used in confined space and rescue operations.
- Mechanical, chemical, and related characteristics of a wide variety of flammable and explosive materials and objects.
- Principles of combustion and cause of fire.
- Principles of building construction and fire protection systems.
- Geography and street layout of the City and surrounding area.
- Current safety practices related to equipment and procedures involved in the fire service.
- Methods and techniques of public relations.
- Record-keeping and basic report preparation principles and practices.
- Basic office procedures and methods, including computer equipment and supporting word processing and spreadsheet applications.

Ability to:

- Safely drive and maintain fire apparatus and equipment.
- Retain presence of mind and act quickly and calmly in emergency situations.
- Comprehend written, video, and oral presentations related to required training of position.
- Analyze emergency situations and develop appropriate courses of action.
- Respond to requests and inquiries from the general public.
- Perform a variety of fire suppression, fire prevention, emergency medical response, and technical rescue activities.
- Effectively use specialized fire suppression tools and equipment, including safety equipment.
- Meet the physical requirements necessary to perform the assigned duties safely and effectively.

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Observe and follow safe firefighting and work practices.

Operate modern office equipment and computers, including applicable software applications.

Communicate clearly and concisely, both orally and in writing.

Establish and maintain effective working relationships with those contacted in the course of work.

Education and Experience Guidelines - *Any combination of education and experience that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:*

Education/Training:

High School diploma or equivalent, and successful completion of a state-certified fire academy and other required certification courses. Additional college level coursework in fire science or closely related field, up to and including an Associate's Degree, is highly desired.

Experience:

Two (2) years of full-time professional fire-fighting experience or firefighting experience as a current volunteer in good standing with the Suisun City Fire Department.

License or Certificate:

Possession of a Class C California driver's license with a Firefighter endorsement.

Possession of Firefighter I certification issued by the California State Fire Marshal, Firefighter II is desired.

Fire Apparatus Driver/Operator 1A and 1B certification is required within the first six months of appointment.

Possession of valid EMT and CPR certifications.

Some positions may require possession and maintenance of a valid Paramedic certification.

PHYSICAL DEMANDS AND WORKING ENVIRONMENT

The conditions herein 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 job functions.

Environment: Standard office setting with some travel to various locations to attend meetings or respond to emergency scenes, disasters, or critical incidents; the employee occasionally works near moving mechanical parts; occasionally exposed to outside weather conditions and wet and/or humid conditions; occasionally works in high, precarious places; occasionally exposed to fumes or airborne particles, toxic or caustic chemicals, extreme cold, extreme heat, risk of electrical shock, risk of radiation, and vibration; the noise level in the work environment is usually moderate, however, the noise level is occasionally very loud due to sirens, etc; wear appropriate personal protective equipment when operating at emergency scenes and self-contained breathing apparatus; incumbents may be required to work extended hours including evenings, weekends, holidays and may be required to travel outside City boundaries to perform Fire Department duties.

Physical: Primary functions require sufficient physical ability to work in both an office setting and in a reactive emergency or disaster environment; walk, stand, or sit for prolonged periods of time; sitting, standing, walking on uneven or slippery surfaces, kneeling, bending, twisting, turning, stooping, squatting, grasping and crawling; ascending and descending stairs and ladders; work both inside and outside with exposure to extreme weather conditions, odors, dust and pollen; exposure to chemicals, skin irritants, fumes and solvents; frequent hand and arm motion; hand and finger dexterity sufficient to use small tools; turning and bending neck; regularly push, pull, lift, and/or carry equipment and objects weighing up to 100 pounds; the ability to stand, walk, bend and reach at, above or below shoulder height for extended periods of time; sustained concentration and prolonged commitment to job tasks; interpersonal skills sufficient to work closely with others on a team; operate office equipment including use of computer keyboard; requires a sense of touch, finger dexterity, and gripping with hands and fingers; ability to speak and hear to exchange information; ability to operate a vehicle to travel to

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various locations; ability to operate and use specialized vehicles, firefighting, emergency medical, technical rescue and other equipment.

Vision: See in the normal visual range with or without correction.

Hearing: Hear in the normal audio range with or without correction.

OTHER CHARACTERISTICS

Work Hours: Fire Engineers work 24-hour shifts averaging 106 hours per pay period.

Similar Job Titles: Firefighter/Engineer, Firefighter II

FLSA	Non-Exempt
B.U.	SCPFA/IAFF, Local 1186
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