

City of South San Francisco
Human Resources Department

Fire Apparatus Engineer
Class Description

Definition

Under general supervision, engages in firefighting, medical aid, and all other suppression and prevention activities in order to protect life and property; drives, operates, and maintains all fire department apparatus and equipment; assists and participates in training programs; participates in inspections and related fire prevention and public education activities; and does related work as required.

Distinguishing Characteristics

This classification encompasses the full range of firefighter duties and it is distinguished from the firefighter classification in that this classification has primary responsibility to drive, pump, operate, and maintain all fire apparatus within the department.

Typical and Important Duties

1. Responds to fire and other emergency alarms by driving assigned vehicle to required locations.
2. Operates fire equipment and otherwise assists in the suppression of fires and in the protection of life and property.
3. Maintains assigned fire equipment.
4. Drives and operates all fire apparatus.
5. Participates in the continuing training and instruction program and attends scheduled drills and classes.
6. Instructs other fire staff in the operation and care of fire apparatus and related equipment.
7. Studies and becomes familiar with streets, fire hydrants, and building occupancy and contents.
8. Compiles and submits information and responds on equipment runs, accidents, gas and oil usage, apparatus inspections, tests, and conditions.
9. Effects rescues.
10. Lays hose lines.
11. Drives and locates equipment in the proper place at scene; operates apparatus pumps; and operates aerial apparatus.
12. Perform draft test as assigned.
13. Attacks fires and directs fire streams.
14. Applies basic life support techniques; sets up intravenous solutions and takes blood pressures if qualified as an EMT; and assists in the emergency transporting of patients.
15. Operates communications equipment.
16. Performs a variety of routine maintenance and repair tasks including the inspection and minor equipment repair.
17. Participates, as assigned, in inspections and related fire prevention duties.

18. Studies and reviews department rules and regulations, fire hazards, and firefighting techniques; participates in drills, training sessions, and exercises.
19. Meets the public and deals with various officials and citizens in furthering the public relations of the department; conducts and participates in public education and training programs.
20. May be required to respond to alarms during the non-duty hours when on-duty staff needs to be augmented.
21. Serves as acting captain, as assigned.
22. Performs related duties and responsibilities as assigned.

Job-related Qualifications

Knowledge of:

- Principles, practices, and procedures of modern fire suppression and prevention, and of the protection of lives and property.
- Rules and regulations of the City and the department.
- Operation and maintenance of apparatus and equipment used by the department, including pumpers, trucks, ambulances, etc.
- Basic Life Support, rescue, and related equipment and practices.
- Modern and accepted methods of training, both classroom and in-service.
- Local streets, location of hydrants, and major traffic and fire hazards.

Ability to:

- Drive and operate pumpers, trucks, ambulance, and aerial apparatus with care and safety in accordance with traffic laws and ordinances.
- Speak in a clear and understandable manner using good English and proper enunciation.
- Communicate effectively in writing, orally, and with others to assimilate, understand, and convey information, in a manner consistent with job functions.
- Think and act quickly in emergencies.
- Understand and carry out orders given in person, by radio, telephone, or in writing.
- Learn computer applications related to the work, including e-mail and calendar applications.
- Establish and maintain cooperative-working relationships with those contacted in the course of work.
- Understand and comply with City and the departmental rules and regulations.
- Use English effectively to communicate clearly and concisely in person, over the telephone, and in writing.
- Learn principles, practices, and techniques of training adult learners.
- Use initiative and independent judgment within established policy and procedural guidelines.
- Take a proactive approach to customer service issues.
- Make process improvement changes to streamline procedures.

- Perform assignments and maintain equipment in a safe manner; understand and carry out safety policies, rules, and regulations; properly uses safety equipment.
- Maintain confidentiality regarding sensitive information.

Skill in:

- Driving a variety of apparatus'.
- Operating a personal computer and associated applications.

Experience and Training

Any combination of experience and training that would provide the required knowledge, skills, and abilities would be qualifying. A typical way to obtain the knowledge, skills, and abilities would be:

Experience:

One year of firefighter or paramedic/firefighter experience with the City of South San Francisco's fire department.

Training:

Equivalent to graduation from high school.

Licenses and Certificates

All items below must be maintained as a condition of employment, unless otherwise stated.

- Possession of an appropriate, valid California driver's license to drive fire apparatus. Must have medical clearance to maintain driver's license. Driving record will be checked prior to appointment and periodically thereafter.
- Possession of a California Firefighter I certificate.
- Possession of a valid Cardio-Pulmonary Resuscitation (CPR) card issued by the American Red Cross or the American Heart Association.
- Possession of a valid Standard or Advanced First Aid Card issued by the American Red Cross or equivalent or current EMT I-FS or EMT IA Certification.
- Possession of an Emergency Medical Technician I (EMT-I) or Emergency Medical Technician I Fire Service (EMTI-FS) certificate is required for those hired after 6/30/01.

Special Requirements

Essential duties require the following physical skills and work environment:

Physical Skills:

Ability to sit, stand, walk, run, kneel, crouch, stoop, squat, crawl, twist; climb ladders, stairs, and scaffolding; lift and carry 100 pounds; vision to read printed materials and a computer screen; hearing and speech to communicate in person and over the telephone; dexterity to drive a large vehicle; sit for prolonged periods.

Work Environment:

Mobility to work in a typical office setting or field environment with exposure to cold, heat, noise, outdoors, vibration, confining spaces, dust, chemicals, explosive materials, mechanical hazards, and electrical hazards.

Ability to:

Travel to different sites and locations; drive large vehicles; drive safely to different sites and locations; maintain a safe driving record; work on-call, stand-by, and shifts; work protracted and irregular hours.

Additional Information:

- Approved: May 2002
- Revised Date: June 2003
- Former Titles:
- Abolished:
- Bargaining Unit: IAFF
- DOT: No
- Status: Classified/Non-exempt
- Job Code: The 56 hour position is B120, 40 hour position is B121