



Department	Fire
Bargaining Unit	HFFU Local 3395
Salary Range	F53
Last Revision	February 2018

FIRE ENGINEER

Effective Date – 04-02-2018

JOB DESCRIPTION

DEFINITION:

The Fire Engineer classification performs a variety of unskilled, semi-skilled, and skilled duties involving fire suppression, emergency response, protection of life and property, fire prevention, and other related activities. Work is performed under close to general supervision depending upon the complexity of the task and the skills of the incumbent. This classification may provide limited work direction to less experienced employees in this classification and may temporarily act as a Fire Captain.

SUPERVISION RECEIVED AND EXERCISED:

Receives general direction from the Fire Captain
Reports directly to the Fire Captain or the Fire Battalion Chief
Exercises direct and indirect supervision of the Firefighter and Reserve.

CLASS CHARACTERISTICS:

Incumbents in this class are the engineering position within the firefighting series. Incumbents generally drive and operate the engine and hydraulic controls at a fire scene but may perform other duties upon order of the scene Fire Captain or Incident Commander. The classification of Fire Engineer differs from the next lower classification of Fire Fighter in that a Fire Fighter functions as a Task specific of an assigned Engine, Truck or Rescue Company and has limited administrative duties in connection with other Department functions and programs.

EXAMPLES OF IMPORTANT DUTIES AND RESPONSIBILITIES:

Depending upon assignment, duties may include but are not limited to the following:

- Respond to fire, emergency medical calls, and other emergency alarms and public service calls as a member of a fire suppression company.
- Perform primary and secondary search procedures for fire and disaster victims. Remove and rescue trapped victims.
- Apply Basic Life Support (BLS) and perform primary and secondary assessments on patients at the scene of a medical emergency to determine appropriate medical treatment.
- Drive the fire apparatus, taking the most direct route to the incident scene, and

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- maneuvering around obstructions as necessary for correct and safe positioning.
- Position the fire apparatus at the incident scene for efficient operation, secure and maintain an adequate supply of water for hose lays, and operate pumping equipment.
- Operate multiple vehicle types such as aerial apparatus, tow equipment, rescue units, four wheel drive apparatus, etc.
- Gain access to involved structures or areas to evacuate inhabitants, lay hose lines and assist in operating nozzles to direct streams of water on fires to control and extinguish fires.
- Select proper tools from a wide variety of specialized manual and power equipment in order to perform required tasks such as raising, lowering, and climbing ladders, and operating equipment from attics, ladders, basements, roofs, and other hazardous points.
- Operate rescue equipment such as the air chisel, air bags, etc.
- Ventilate burning buildings to release heat and smoke, use salvage covers to prevent water damage, and overhaul operations after a fire to prevent rekindling.
- Check fire scene for point of origin and source of ignition and preserve evidence, which may indicate arson.
- Inspect and perform routine maintenance on rescue equipment, fire apparatus, hydrants, fire hoses, and other support equipment.
- Study and attend training sessions concerning, but not limited to, subjects such as modern techniques of firefighting, emergency medical services, hazardous materials and rescue techniques.
- Perform fire prevention functions by inspecting commercial, industrial, and residential structures.
- Provide assistance and information regarding fire and life safety education and other related community service programs to the public.
- Perform general maintenance and upkeep of fire stations, including but not limited to gardening and housekeeping duties.
- Provide technical assistance and informally train new Firefighter, Engineers, Explorers, and Reserves on the daily operations of the job.
- May act as Fire Captain or Arson Investigator as necessary.
- Perform other duties as assigned.

KNOWLEDGE OF:

- Basic Life Support (BLS) procedures for evaluation and treatment of patients during various medical emergencies.
- Basic techniques on safe and proper use of tools and equipment associated with mechanical and maintenance work.
- Basic principles relating to flammable and combustible materials.
- Basic mechanical principles such as leverage, force, acceleration, friction, etc.
- English grammar, punctuation, and spelling.
- Basic math such as addition, subtraction, multiplication, and division utilizing both whole numbers and decimals.
- Local geography, including the location of water mains, hydrants, and major target hazards, fuel models, and traffic hazards of the Department.

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- Principles and techniques of supervision, leadership, and training.
- Report writing and form procedures.

ABILITY TO:

- Learn fire fighting methods and techniques, the basic operation and mechanics of fire fighting equipment, location of hydrants, mains, major traffic and fire hazards.
- Learn to drive apparatus with care and safety in accordance with traffic laws and Department regulations.
- Learn and maintain proficiency in Basic Life Support (BLS) practices and techniques.
- Analyze fire and driving situations and to adopt effective courses of actions.
- Think and act quickly in emergencies.
- Understand and carry out verbal and written directions.
- Maintain effective working relationships with those contacted in the course of work.
- Work irregular or protracted hours and to respond to call-backs.
- Perform heavy and hazardous physical labor for extended periods.
- Meet and maintain physical standards.
- Work well with others as a team.
- Analyze problems quickly and take appropriate action under pressure.
- Effectively interact with various individuals with tact and courtesy.
- Effectively and clearly communicate in both verbal and written formats.
- Work under conditions of zero visibility and temperature variations with various equipment and tools.
- Read and interpret maps, diagrams, floor plans and geometric figures.
- Calculate hydraulic engineering problems under emergency conditions.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Any combination equivalent to 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:

EDUCATION:

- California State Fire Training Fire Fighter I (2013) or (2001)
- California State Fire Training Fire Fighter II (2013) or (2001)
and
- California State Fire Training Fire Apparatus Driver/ Operator I
Or
- California State Fire Training Fire Apparatus Driver/ Operator Pump (2015)

Associates Degree from a properly accredited institution is highly desirable. A BS/BA degree from a properly accredited institution in Fire Protection Technology or other related field is highly desirable.

EXPERIENCE:

Two years of firefighting experience as a full-time firefighter in the City of Hollister.

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LICENSE, CERTIFICATE AND QUALIFICATIONS:

- Ability to complete applicable California Incident Command Certification System (CICCS) components
- Ability to complete California State Fire Training Company Officer (2014) classes and task book

Must have the following:

- Possession of a valid California Class B Driver's License, Current Medical Examiners Certificate (MCSA-5876) or Firefighter Endorsement (F), Current Health Questionnaire (DL-546) and a good driving record.
- Possession of a California Emergency Medical Technician (EMT) card.
- Possession of a Current Cardiopulmonary Resuscitation (CPR) and Automated Defibrillation (AED) certificate.

Must complete the following coursework within a year of appointment:

- California State Fire Training Fire Apparatus Driver/ Operator Aerial (2015)
- California State Fire Training Fire Apparatus Driver/ Operator Tilled (2015)
- California State Fire Training Fire Apparatus Driver/ Operator Wildland (2015)
- California State Fire Training Fire Apparatus Driver/ Operator Water Tender (2015)

Must complete any additional required California State Fire Training Fire Apparatus Driver/ Operator Courses during probationary year on own time through the City's Tuition Reimbursement program, if available.

SPECIAL REQUIREMENTS:

- Must meet minimum medical requirement defined in NFPA Standard 1582
- Must demonstrate physical strength, endurance and agility as defined by NFPA Standard 1582 and as applied to the position
- Must maintain physical fitness according to Departmental Standards
- Must sign non-tobacco use agreement
- Must complete all required items in Hollister Fire Department Fire Engineer Task Book prior to appointment. Entire task book must be completed prior to achieving permanent status.

PHYSICAL DEMANDS AND WORKING CONDITIONS:

Incumbent must be able to satisfy the Arduous physical demand of the job.

Arduous

Duties involve fieldwork requiring physical performance calling for above-average endurance and superior conditioning. These duties may include an occasional demand for extraordinarily strenuous activities in emergencies under adverse environmental conditions and over extended periods of time. Requirements include running, walking, climbing, jumping, twisting, bending, and lifting more than 50 pounds; the pace of work typically is set by the emergency situation.