



Department	Fire
Bargaining Unit	HFFU Local 3395
Salary Range	F-53
Last Revision	December 2013

FIRE ENGINEER

Professional Development Manual Effective Date – 6-1-13

DEFINITION

Under general supervision, to have primary responsibility for the operation, use and routine maintenance of fire vehicles and pumping equipment utilized during firefighting activities; to perform a full range of firefighting duties; to perform fire prevention inspections; and to perform related work as required.

CLASS CHARACTERISTICS

Positions 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 commander. Incumbents are expected to render first aid in the face of extreme conditions.

EXAMPLES OF DUTIES

Responds to alarms; drives fire equipment to fires; operates a pumping engine engaged in boosting water pressure from street mains, or draft, through hose lines to nozzle; uses hydraulic theory and mathematics to fire correct pump pressure to ensure required water pressure at the nozzle; assumes responsibility for operation of pumps; cleans, washes and services equipment; inspects equipment and motor of pump; cleans and maintains hoses carried on equipment; places truck in appropriate position at the scene of a fire or in other emergencies calling for ladders or life nets; performs a full range of firefighting duties; performs rescue and life-saving work through the use of ladders and life nets; estimates heights and adjusts equipment to ensure proper and safe operation; conducts inspections of public assemblies and commercial, industrial or governmental buildings and other public establishments to secure compliance with codes and regulations pertaining to fire safety; issues orders to comply with codes; inspects and tests fire protection systems; examines the storage, handling and use of flammable liquids and other hazardous materials; makes recommendations regarding correction of hazards; assists in the investigation of fires; responds to complaints and requests for information from the public; assists in maintenance of fire station and grounds; conducts daily inspections of condition and readiness of equipment; flow-tests hydrants; maintains and services hydrants; studies the geography of the City, location of fire hydrants and first aid methods; operates lifting, spreading and pulling equipment; operates foam and additive proportions; assumes charge of an engine company in the absence of the Captain; operates City vehicles; and performs related work as required.

LICENSE REQUIRED

- Possession of a valid Class B California Driver's License.
- Possession of valid Emergency Medical Technician I (EMT-I) Certificate.

QUALIFICATIONS

Knowledge of:

Drive operator 1A and 1B
Hydraulic principles related to firefighting;
City geography and water systems;
Technical firefighting principles and techniques;
Emergency medical techniques;
Basic mathematics and mechanical relationships;
Appropriate safety precautions and procedures.

Ability to:

- Calculate hydraulic engineering problems under emergency conditions;
- Drive fire engine or fire truck safely;
- Operate a vehicle observing legal and defensive driving practices;
- Perform skilled firefighting duties;
- Respond quickly to changing situations under emergency pressures;
- Use tools and equipment in fighting fires;
- Perform mechanical work involved in maintaining firefighting rescue vehicles, equipment and tools;
- Understand and carry out oral and written instructions;
- Establish and maintain effective relationships with those contacted in the course of work;
- Operate a computer terminal.

TRAINING AND EXPERIENCE

Experience:

Two years of firefighting experience comparable to that of a full-time firefighter in the City of Hollister.

Education:

Equivalent to completion of 12 grade 15 semester units of college credit in fire science or fire administration.

PHYSICAL DEMANDS AND WORKING CONDITIONS

Strength: Heavy Work - Lifting, carrying and/or pushing 100 pounds with frequent lifting and/or carrying of objects weighing up to 50 pounds.