

# Fire Engineer, Senior

DEPT: Fire  
DIV:  
DATE: July 2016

FLSA: Non-Exempt  
EEOC: Protective Service



## POSITION SUMMARY

Performs "full performance" and advanced level firefighting duties being responsible for the care, operation and condition of fire apparatus and equipment; provides the City with prevention and mitigation of emergencies and disasters, through proper planning, public education and code enforcement; responds to emergencies involving fire, medical and environmental concerns.

## SUPERVISION RECEIVED

Works under the general supervision of the Station Officer, Captain, Battalion Chief and Fire Chief.

## SUPERVISION EXERCISED

May provide immediate to close supervision to firefighter's while in training or on a project by project basis.

## ESSENTIAL FUNCTIONS

Responds safely, promptly, and efficiently to fire, rescue, hazardous materials incidents and alarms; understand fire ground procedures including fire streams, forcible entry, water supplies, savage, and ventilation, overhaul and command procedures; frequent use of fire equipment, including hose lines, nozzles, pumps, hydrants, extinguishers, ladders, hand tools, extrication tools, the use and wearing of breathing apparatus; operate a pumping engine engaged in boosting water pressure from street mains through hose lines to nozzles; use hydraulic theory and mathematics to calculate correct pump pressure to ensure required water pressure at the nozzles.

Performs or assists to perform various rescues including rope rescue, trench rescue, ice rescue, confined space rescue, collapse rescue; vehicle extrications, etc.

Responds safely, promptly, and efficiently to medical incidents, understand emergency medical procedures, including airway management, bandaging, CPR, splinting and spinal immobilization etc.

Completes daily, monthly and annual fire and medical training necessary to maintain Utah State firefighter and emergency medical and hazardous material certifications; training will also include in-house quick drills and annual skills testing.

Drives and operates department apparatus in emergency and non-emergency situations. Inspect business, public and private properties for hazards and code violations, test and inspect fire hydrants; performs various pre-trip and post-trip inspections; performs scuba inspections.

Conduct tours, lectures and video presentations; display fire apparatus; participate in public demonstrations at local school programs and various civic and city functions.

Performs computer operations; complete daily, monthly and annual reports on the testing of fire and medical equipment. Maintain equipment on apparatus to include daily, monthly and annual testing; test and rotate hose; clean; wash, wax and repair apparatus; maintain daily maintenance records and complete maintenance and equipment reports.

**MARGINAL DUTIES: May act in as Station Officer. General interior and exterior station clean up. Vacuum and clean building. Remove snow. Insure the building is ready for public inspection at all times.**

Performs other related duties as assigned.

## MINIMUM QUALIFICATIONS

### 1. Education and Experience:

- A. Graduation from high school, or equivalent

AND

- B. Five (5) years of full time work experience as a firefighter; one year certified as an Apparatus Driver Operator-pumper and aerial; part time experience will be awarded at a 2:1 ratio. (i.e. 6 years part time work equals 3 years full time)

OR

C. An equivalent combination of education and experience

2. Knowledge, Skills, and Abilities:

**Considerable Knowledge of** Uniform Fire Code; fire department policies and procedures; fire ground procedures including fire streams, forcible entry, water supplies, salvage and overhaul; incident command procedures; inspection procedures; sprinkler systems; alarm and communication procedures; variety of apparatus, equipment, tools, devices, and vehicles used in firefighting, rescue, and medical assistance operations; Local geography including the location of water mains, hydrants, major fire hazards of the City, and City streets; hazardous materials, chemical chain reactions, and fire behavior; pertinent Federal, State, and local laws, codes, and regulations.

Skill in the operation of modern office equipment including computer equipment and software.

**Ability to** perform field calculations of hydraulics for the proper and effective operations of equipment at emergency scenes and to provide effective stream flows from fire pumps; communicate verbally and in writing; ability to write reports; analyze and solve problems; establish and maintain effective working relationships with the public and city personnel; exercise discretion and judgment in emergency situations; the care, condition, and use of department apparatus, equipment and pumps; the performance of manipulation skills outlined under the Utah State Apparatus Driver Operation Certification Programs; supervision of others

3. Special Qualifications:

Utah State Firefighter Certification.

Must complete Lehi specific Engineer School Certification (includes Utah Apparatus Driver Operator and Aerial certifications, Fire Officer Certification)

Must maintain Utah Advanced EMT or Paramedic certification

Must maintain NWCG red card certification

Must maintain NIMS 100, 200, 700, 800 certifications

Must pass fire department annual engineer skills testing

Must maintain CPR certification.

Must obtain and maintain Wild Land certification.

4. Work Environment:

This job entails regular exposure to dangerous situations under disagreeable conditions, including smoke, heights, fire, fumes, heat, cold, emergency driving, etc.; frequent exposure to dangerous situations with medical emergencies; long shifts, 48 hours in length; call backs on days off to assist with emergency situations; must be able to wear and work in fire department breathing apparatus; must meet Lehi City Fire Department physical agility standards. May be require do lift 50 to 100 pounds in the normal course of job performance.

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**Disclaimer:** The above statements describe the general nature, level, and type of work performed by the incumbent(s) assigned to this classification. They are not intended to be an exhaustive list of all responsibilities, demands, and skills required of personnel so classified. Job descriptions are not intended to and do not imply or create any employment, compensation, or contract rights to any person or persons. Management reserves the right to add, delete, or modify any and/or all provisions of this description at any time as needed without notice. This job description supersedes earlier versions.

I \_\_\_\_\_ have reviewed the above job description. Date: \_\_\_\_\_  
(Employee)