



JOB DESCRIPTION

Title: **FIRE ENGINEER**
Department: Fire
Class Code: 4305
FLSA Status: Non-Exempt
Effective Date: July 1, 1997 (Rev. 01/2024)

GENERAL PURPOSE

Under general supervision of the Captain, provides direct services, individually and as a member of a team in response to fire, rescue, hazmat, and other incidents.

The Engineer is responsible for driving, operating and maintaining fire department apparatus. The engineer must respond to medical emergencies and provide pre-hospital care to victims of injury or illness at a BLS or ALS level according to the engineer's current medical certification.

The position of engineer necessitates the same knowledge, skills, and job requirements as listed under the Firefighter job description.

ESSENTIAL DUTIES

- Participates and responds to emergency fire, medical, and other special operation emergencies.
- Drives fire apparatus, engines, ladder truck, tower etc., ensures vehicle and equipment maintenance and readiness; makes routine and emergency repairs; transports firefighting crews safely to fire and emergency scenes; operates firefighting apparatus, pumps, nozzles, hydraulic equipment, etc. Supplies extinguishing agents at scenes; provides proper fire streams.
- Performs a thorough, daily inspection and pump check of the apparatus to which he/she is assigned; notifies station officer of any condition requiring repair or maintenance; insures that the inventory of supplies and equipment is complete; assures that apparatus, equipment, and records are maintained and in good order.
- Maintains daily log of equipment and apparatus.
- Operates heavy extraction equipment such as air bags, hydraulically powered cutters and spreaders, pneumatic cutters and special saws.
- Functions as Acting Officer in Charge (AOIC) when required.
- Fulfills assignments in hose deployments, operating nozzles, pumps and hydrants; utilizes fire extinguishers and performs other actions to suppress fire; operates hydraulic, pneumatic, manual and power tools.
- Fulfills assignments in salvage operation and post fire operations; uses salvage covers, floor runners and other related equipment to reduce property damage from heat, smoke, fire, gases, and water.
- Participates in drills and training evolutions as directed.

- Participates in fire and life safety inspections of commercial and residential properties; checks operating condition of hydrants.
- Cleans and performs general maintenance of fire equipment and fire stations.
- Provides patient care at scenes of accidents or acute illness for which emergency medical care has been requested.
- Required to transfer, lift and move patients while employing appropriate safety and lifting techniques.
- Responds to hazardous materials incidents at an awareness level and responds to other calls for assistance as requested by the public.
- Participates in public education programs in schools, civic groups and other locations as requested.
- Conducts departmental training sessions on topics related to the employee's job functions, attends various engineers' meetings.
- Utilizes city computer system for patient care documentation, record keeping, pre-incident planning and other job-related functions.
- Drives and operates fire apparatus under the direction of the station officer and according to procedures as outlined in Murray Fire Department SOGs.
- Participates in daily physical training.
- Performs related duties as required.

MINIMUM QUALIFICATIONS

Education and Experience

- Must have high school diploma or the equivalent (GED), plus two (2) years' experience as a full-time firefighter, with a minimum of one (1) year at Murray City Fire Department.

Special Requirements

- Must possess a valid Utah Driver license.
- Must possess current EMT, AEMT or Paramedic through the State of Utah.
- Must maintain continuing education requirements, including current certification in Basic Life Support (BLS), Advanced Cardiac Life Support (*ACLS), Pediatric Advanced Life Support (PALS), Trauma Certification, or other applicable certificates.
- **Firefighter I, Firefighter II, ADO-Pumper, ADO-Aerial** through the Utah Fire Certification Council.
- Must complete department's emergency driving class.

Necessary Knowledge, Skills and Abilities

- Considerable knowledge of fire and medical equipment, fire ladders, tools, SCBA, etc.; knowledge of proper care and maintenance of equipment.
- Considerable knowledge and skill in pumping operations and fire ground hydraulics, and operation of aerial equipment.
- Considerable knowledge of city streets, geography and target hazards.

- Considerable knowledge and skills in driving fire apparatus of all types and sizes; working knowledge of applicable laws, codes, and standards related to driving and operation of apparatus.
- Ability to follow written and verbal instructions; ability to communicate verbally and in writing.
- Ability to exercise appropriate and safe judgment related to tactics of firefighting and emergency medical services.
- Working knowledge of fire department policies and procedures, and the Incident Command System.
- Ability to handle high levels of personal stress and to maintain composure under a variety of adverse conditions, including verbal and physical abuse, witnessing death and critical injuries and experiencing risk of personal harm.

TOOLS & EQUIPMENT USED

- Fire apparatus, SCBA, fire pumps, hoses, and other standard firefighting equipment, ladders, first aid equipment, radio, personal protective gear, personal computer.
- All equipment listed on State of Utah's required equipment list for EMT's and paramedics, including but not limited to defibrillators medical suction equipment, cardiac monitors, intubation equipment, IV and medication administration equipment.

PHYSICAL DEMANDS

The physical demands described here 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 functions.

In addition to the physical demands of the job as listed below the employee must participate and pass the department's annual Physical Agility Test (PAT) as described in Murray Fire Department SOGs. The employee must also be cleared for duty as determined by a physician through required annual medical screening evaluations and meet Murray City's Health Standards and Requirements for Positions in the Public Safety Service.

- While performing the duties of this job, the employee is frequently required to sit; talk or hear; stand; walk; use hands to manipulate, handle, or operate objects, tools, or controls; and reach with hands and arms. The employee is occasionally required to climb or balance; stoop, kneel, crouch, or crawl; and taste or smell. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.
- The employee must be able to move objects such as rescue manikins weighing 181 lbs. short distances (50 feet or more), perform duties requiring pulling of 53 pounds or more such as removing hose from apparatus, pulling ceilings, starting power equipment, and opening doors on the apparatus, as well as frequently team lifting patients or objects weighing 75 to 150 lbs. while wearing full PPE of roughly 50 pounds.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- While performing the duties of this job, the employee regularly works in outdoor weather conditions, including temperature extremes, during day and night shifts. Work is often performed in emergency and stressful situations. Individual is exposed to hearing alarms and hazards associated with fighting fires and rendering emergency medical assistant, including smoke, noxious odors, fumes, chemicals, liquid chemicals, solvents and oils.
- The employee occasionally works near moving mechanical parts and in high precarious places and is occasionally exposed to wet and/or humid conditions, fumes or airborne particles, toxic or caustic chemicals, risk of electrical shock, and vibration. The noise level in the work environment is usually moderate, except during certain firefighting or EMT/Paramedic activities when noise levels may be loud.
- The employee will be required to work 48 hour and up to 72 hour continuous shifts. During this time the employee may experience several interruptions of sleep, meals and/or other activities. The employee will be expected to perform essential job functions despite the potential for fatigue resultant from extended shift work.

DEPT/DIVISION APPROVED BY: _____ DATE: _____

EMPLOYEE'S SIGNATURE: _____ DATE: _____

H. R. DEPT. APPROVED BY: _____ DATE: _____