



CLASS SPECIFICATION

Class Code: 17156
Date Est: 11/2011
Last Rev: 07/2024
Last Title Chg: 03/2019
FLSA: Non-exempt
Probation: 12 Months

FIRE ENGINEER

DEFINITION

Under general supervision, operates and maintains fire apparatus and other emergency vehicles including driving, pump operation, lifting and pulling hose equipment and other related work activities connected with the response to emergency and other incidents; and performs related work as required.

EXPERIENCE AND TRAINING REQUIREMENTS

All Qualified applicants will have met the following provisions and then shall be eligible to test for the position of Fire Engineer:

- Four (4) years of continuous District seniority
- Successful completion of a District sponsored Engineers Development School.

LICENSE OR CERTIFICATE

Required at time of application:

- Possession of a valid State of Nevada or National Registry Emergency Medical Technician or higher.
- CPR certification from the American Heart Association (AHA).
- A valid driver's license with Nevada "F" endorsement (or equivalent from another state that complies with the Nevada Department of Motor Vehicles' requirement).

SUPERVISION EXERCISED

May direct the work of a crew during the absence of a company officer.

EXAMPLES OF DUTIES *(The following is used as a partial description and is not restrictive as to duties required.)*

Drive fire apparatus and other emergency vehicles used in the transport of equipment and personnel in response to fire, rescue, emergency medical, hazardous material, and other public service alarms.

Respond to fires and other emergency or public assistance incidents in a timely, safe, and skilled manner and participate in their control through hose laying, ladder operation, ventilation, extinguishment, extrication, salvage and other activities as part of team effort.

Operate pumps and other fire apparatus ensuring that water flows in sufficient quantity and pressure for application at the scene of fires and hazardous material incidents.

Perform as an emergency medical technician; rescue endangered people and administer first aid as needed.

Operate, maintain, and assist with the repair and preventative maintenance of specialized equipment such as structure, wildland, and aerial apparatus, portable fire pumps, saws, hydraulic rescue tools, and other equipment as assigned.

Maintain inventory and maintenance records of apparatus and equipment, and conduct regular inspections to ensure proper condition of fire suppression and emergency medical items.

Assist with maintaining the fire station in a clean and orderly condition.

Participate in and receive training in fire control, prevention, hazardous materials, rescue, EMS and related life and property protection activities, study District and industry best practices, fire and safety hazards, and firefighting and lifesaving techniques.

Conduct fire prevention tasks including basic inspections to enforce fire codes, and fire safety public education presentations to reduce fire hazard risk to the public.

Perform various public information and public relations tasks, answer questions from the general public.

Prepare and maintain various records, maps, and reports.

Perform duties and responsibilities in a safe and prudent manner which does not expose them or others to unnecessary harm or risk of on-the-job injury.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Knowledge of:

Truckee Meadows Fire Protection District best practices including policies, operating guides, administrative directives, and operational manuals

Geography of the district, including major streets, landmarks and water systems.

Structural firefighting techniques, rescue methods, and associated tools and equipment.

Wildland fire behavior and control techniques.

Operational terminology required to communicate with other personnel.

Basic principles of mechanics, hydraulics relating to fire apparatus, suppression equipment, sprinkler systems and standpipes.

Federal, state, and local laws pertaining to driving and handling of fire apparatus and other emergency vehicles.

Operation and maintenance of fire apparatus, pumps, and related equipment.

Mechanical systems of apparatus, pumps, aerial ladders and pump panels.

Friction loss and proper pressures for various hose layouts, nozzles, and equipment.

Types of fire streams and their effects on fires.

Structure and operation of fire hydrants and related connectors.

Medical emergencies and appropriate treatments for those emergencies based on level of certification and District protocols.

Ability to:

Read and comprehend laws, regulations, policies, and procedures.

Perform a variety of firefighting and emergency rescue assignments, including the operation of fire pumps and fire apparatus, with considerable skill.

Apply fire service technologies, principles, practices, methods, techniques and equipment during emergency fire equipment operations.

Analyze emergency situations and quickly develop effective and reasonable courses of action.

Evaluate patient's condition and properly render emergency medical care to sick and injured persons

Safely operate motor vehicles, pumpers, aerial devices, and related equipment

Analyze, troubleshoot, and initiate a solution for water supply systems and make sound decisions regarding water sources and connections.

Analyze, troubleshoot, and initiate a solution for basic mechanical deficiencies or failures.

Understand and perform fireground hydraulic calculations to safely place fire streams in service.

Plan, organize, and prioritize daily activities.

Read and follow street maps.

Communicate effectively, both orally and in writing.

Understand and follow oral and written directions.

Act with integrity; exercise appropriate discretion and maintain confidentiality of information.

Maintain records and prepare reports.

Exercise emotional control and work under stressful situations.

Work independently and direct work of crew in the absence of direct supervision.

Establish and maintain effective working relationships with departmental personnel, other public safety agencies, the public, and others contacted in the course of work.

SPECIAL REQUIREMENTS

Essential duties require the following physical skills and work environment.

Ability to stand and walk for extended periods. Ability to frequently stoop, bend, kneel, and climb. Corrected hearing and vision to normal range. Verbal communication and reading ability. Ability to climb ladders and work at considerable heights. Ability to perform sustained and vigorous activities in a variety of environmental conditions. Ability to tolerate exposure to heat, fumes, smoke, pressurized water, and chemicals.

Positions are required to work varied shifts including mandatory shifts, evenings, weekends, and holidays.

Employees must maintain hairstyles and facial hair in a manner that will not interfere with the required use of self-contained breathing equipment.

All licenses and certifications are required to be kept current and maintained for continued employment.

Applicants may be required to pass a thorough medical examination in accordance with Nevada Revised Statute (NRS) which may include, but not be limited to, treadmill stress EKG, hearing, vision, and lung function tests prior to appointment and for continuing employment.

Applicants (new hire) will be required to undergo a background investigation prior to being considered for employment.

This class specification is used for classification, recruitment, and examination purposes. It is not to be considered a substitute for work performance standards.