



CLASS SPECIFICATION

Class Code: 17156
Date Est: 11/2011
Last Rev: 05/2021
Last Title Chg: 03/2019
FLSA: Non-exempt
Probation: 12 Months

FIRE ENGINEER

DEFINITION

Under general supervision, operates and maintains apparatus including driving, pump operation, lifting and pulling hose equipment and other related work activities connected with the response to emergency and other incidents; performs firefighting activities in combating, extinguishing, preventing fires and basic emergency medical care; operates and maintains firefighting and rescue equipment; maintains fire stations; and performs related work as required.

EXPERIENCE AND TRAINING REQUIREMENTS

Three (3) years of seniority with the District AND 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.

Nevada "F" endorsement (or equivalent from another state) that complies with the Nevada Department of Motor Vehicles' requirement.

Required at time of appointment:

A valid driver's license.

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.

Check and assist with the repair and preventive maintenance of firefighting and fire prevention equipment and apparatus; recommend replacement as needed.

Maintain inventory and maintenance records of apparatus and equipment and conduct regular inspections to ensure the availability of adequate supplies and proper condition of fire suppression and emergency medical items; test and maintain firefighting and emergency medical equipment, preserving proper condition and suitability for service.

Perform as an emergency medical technician; rescue people endangered by fires or other hazards and administer first aid to injured parties as needed.

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

Perform basic maintenance and flow tests on fire hydrants.

Participate in and receive training in fire control, prevention, hazardous materials, rescue, EMS and related life and property protection activities; study fire department rules, fire hazards, and firefighting including wildland fires and lifesaving techniques.

Operate and maintain specialized equipment such as wildland apparatus, aerial apparatus, chain saws, portable fire pumps, hydraulic rescue equipment, as assigned.

Conduct basic inspections and other fire prevention tasks including fire safety public education and presentations to eliminate or reduce fire hazards and enforce fire codes.

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

Prepare and maintain various records, maps, and reports.

Ensure that assigned personnel 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:

Policies and procedures of the Truckee Meadows Fire Protection District.

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

Structural firefighting and rescue methods, tools, and equipment.

Fire behavior and fire control techniques to carry out wildland fire suppression.

Fire line terminology required to communicate with other crew members.

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 emergency vehicles.

Operation and maintenance of fire 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 water 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:

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.

Provide emergency medical treatment to sick and injured persons.

Evaluate patient's condition and properly render emergency medical care.

Operate pumpers and related equipment.

Operate motor vehicles safely.

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

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

Plan, organize, and prioritize daily activities.

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

Read and follow street maps.

Communicate effectively, both orally and in writing.

Understand and follow oral and written directions.

Maintain records and prepare reports.

Climb ladders and work at considerable heights.

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

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 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, weekend, 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 required to be kept current and maintained for continued employment.

All applicants will be required to pass a thorough medical examination and physical agility test may be required 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.