

## FIRE ENGINEER - 4421

### GENERAL DEFINITION AND CONDITIONS OF WORK:

Performs intermediate protective service work in driving fire apparatus and operating pumps; does related work as required. Work is performed under emergency conditions and frequently involves considerable personal hazard. Work is performed under regular supervision.

This is heavy work requiring the exertion of 100 pounds of force occasionally, up to 50 pounds of force frequently, and up to 20 pounds of force constantly to move objects, and some very heavy work requiring exertion in excess of 100 pounds occasionally, in excess of 50 pounds of force frequently, and in excess of 20 pounds of force constantly to move objects; work requires climbing, balancing, stooping, kneeling, crouching, crawling, reaching, standing, walking, pushing, pulling, lifting, grasping, and feeling; vocal communication is required for conveying detailed or important instructions to others accurately, loudly, or quickly; hearing is required to perceive information at normal spoken word levels; visual acuity is required for depth perception, color perception, night vision, peripheral vision, operation of machines, operation of motor vehicles or equipment, determining the accuracy and thoroughness of work, and observing general surroundings and activities; the worker is subject to inside and outside environmental conditions, extreme cold, extreme heat, noise, vibration, hazards, atmospheric conditions, oils, and wearing a self contained breathing apparatus. The worker may be exposed to bloodborne pathogens and may be required to wear specialized personal protective equipment.

### ESSENTIAL FUNCTIONS/TYPICAL TASKS:

#### **Maintaining, servicing, driving, and operating fire equipment; participating in continuing training; assisting with station maintenance.**

Responds to alarms, drives assigned apparatus to required location;  
Assumes primary responsibility for the servicing and maintenance of fire equipment; tests equipment;  
Inspects, prepares scale drawings and pre-plans firefighting strategies;  
Participates in fire suppression and emergency rescue activities;  
Performs basic life support; may serve as shift commander; and/or Station Commander;  
Assumes role of incident commander when necessary;  
Conducts fire inspections and pre-incident surveys;  
Operates pumps and apparatus at fire scene; regulates water pressure to insure required pressure at nozzle;  
Maintains fire hydrants; conducts station tours;  
Assists with fire prevention and fire education programs;  
Assists in maintaining fire apparatus and equipment, and cleaning and maintaining fire station and grounds;  
Participates in continuing training and instruction program by individual technical study and attendance at scheduled drills and classes;  
Performs service testing of fire pumps;  
Maintains records of all apparatus;  
Performs technical rescue skills and functions;  
Maintains reasonable and predictable attendance;  
Performs related tasks as required.

### KNOWLEDGE, SKILLS AND ABILITIES:

Thorough knowledge of firefighting techniques, procedures and mechanics as applied to fire suppression and pump operation; general knowledge of emergency medical techniques and procedures; thorough knowledge of the street system, major buildings, and physical layout of the city; thorough knowledge of the operation and maintenance of firefighting equipment and apparatus and ability to operate such equipment and apparatus safely and effectively; general knowledge of hazardous materials operations and vehicle extraction techniques; ability to understand and follow oral and written instructions; ability to establish and maintain effective working relationships with associates and the general public; possession of mechanical aptitude; physical endurance and agility.

### EDUCATION AND EXPERIENCE:

Any combination of education and experience equivalent to graduation from high school and considerable fire suppression experience supplemented by training in engine operation and maintenance.

### SPECIAL REQUIREMENTS:

Possession of an appropriate driver's license valid in the State of North Carolina. Must meet and maintain minimum

qualifications for position as established by the department.