

City of Merced

Bargaining Unit: 03
FLSA: Covered
Position Number: 04610

FIRE ENGINEER

DEFINITION

Under general supervision, to operate and maintain fire and emergency service equipment; to perform firefighting and emergency response duties in protecting life and property; to respond to fire and emergency service calls; to assist with fire inspection and fire prevention functions; to perform station and equipment maintenance work; to participate in training drills; and to do related work as required.

DISTINGUISHING CHARACTERISTICS

This is the experienced equipment operation level in the firefighting class series. Incumbents are expected to perform the more difficult firefighting and emergency response assignments, as well as have primary responsibility for driving and operating fire and emergency service equipment.

REPORTS TO

Fire Captain or higher-ranking officer.

CLASSIFICATIONS SUPERVISED

This is not a supervisory classification.

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

Drives and operates fire and emergency service apparatus, including aerial trucks; prepares for pumping operations and operates pumps to maintain proper pressure during fire suppression; inspects pumps and related equipment to ensure proper working condition; responds to fire and other emergency service alarms; performs firefighting and emergency response functions, as directed by an officer; fights fire, using proper fire suppression techniques; controls and extinguishes fires; lays and connects hose; directs water and chemical agents onto fires; controls, treats, and contains hazardous materials spills and leaks; enters and ventilates burning buildings; uses hand and power tools; raises, positions, and climbs ladders used in the fire suppression and rescue activities; administers emergency medical aid to trapped and/or injured persons; removes water and debris, and performs a variety of salvage operations; participates in fire drills and training sessions on a variety of emergency services and fire suppression topics; Conducts fire prevention inspections and tests fire protection equipment; performs public education and relations activities; cleans station living quarters and grounds, maintaining them in a clean and orderly condition; Studies and reviews Fire Department rules, regulations, and operating procedures; maintains, cleans, and ensures the proper condition of fire and emergency response equipment; and functions as an Acting Fire Captain, as required.

FIRE ENGINEER - 2

TYPICAL PHYSICAL REQUIREMENTS

Frequently stand and walk; climb stairs and ladders quickly and exercising above average physical agility; walk on sloped, uneven, and slippery surfaces; stoop, bend over, and kneel frequently; crawl through a variety of areas on hands and knees; sufficient manual dexterity and eye-hand coordination to work with special equipment during emergency situations; lift and move objects weighing up to 100 pounds without assistance and heavier objects with assistance; endurance to sustain extra physical effort for a substantial period of time; ability to perform emergency service duties while wearing special breathing apparatus; maintain corrected hearing and vision to normal range; verbal communication; use of office equipment, including computer, telephone, calculator, copiers, and FAX.

TYPICAL WORKING CONDITIONS

Work is normally performed in a fire station environment and at scenes of fires and emergency incidents; frequent driving to different locations throughout the City; work may be performed in a variety of temperatures and weather conditions; work may be performed with unusual exposure to high temperatures and heat; work may be performed with exposure to constant moisture; work may be performed with unusual exposure to hazardous materials and chemicals; above average exposure to life threatening situations; regular contact with other staff and the public.

DESIRABLE QUALIFICATIONS

Knowledge of:

Rescue, confined space, hazardous materials techniques.
Principles, practices, and procedures of modern fire suppression and prevention.
Principles of pumps and hydraulics.
Operation, maintenance, types, and uses of firefighting and emergency response equipment used in the City of Merced.
Emergency medical aid and CPR.
Geography of the City, including the location of mains, hydrants, and fire protection systems.
Use of hand tools and equipment.
Fire inspection methods and procedures.
Fire Department policies, rules, procedures, and regulations.
Building construction.

Ability to:

Skillfully use a variety of fire suppression, emergency medical, rescue, hazardous material methods and procedures.
Drive fire and emergency response equipment safely and skillfully, in accordance with traffic rules.
Understand and act in accordance with Department policy, rules, and regulations.
Read, understand, and apply fire prevention ordinances and hazardous material related information.
Skillfully operate fire and emergency service equipment during emergency incidents.
Meet established standards of physical endurance and agility.
Work for considerable periods of time under adverse conditions.
Perform hydraulic calculations.
Deal tactfully and courteously with the public.
Establish and maintain cooperative working relationships.

FIRE ENGINEER - 3

DESIRABLE QUALIFICATIONS (Continued)

Training and Experience:

Any combination of training and experience which would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the required knowledge and abilities would be:

Two (2) years of firefighting experience equivalent to that of a Firefighter with the City of Merced.

Special Requirements:

Possession of the following:

- A current, valid California Department of Motor Vehicles class B firefighter restricted license or California Department of Motor Vehicles class C with firefighter endorsement license;
- California Firefighter II certification;
- Emergency Medical Technician-I certification;
- Certificate of Completion in Fire Technology;
- Completion of California State Driver Operator 1A and 1B classes;
- Completion of the City of Merced Fire Department Acting Engineer Task Book;
- Possession of California State Driver Operator certification within one (1) year of appointment as a condition of continued employment; and
- Job candidates must meet stringent medical and physical standards.

Reference: City of Merced Personnel Rules and Regulations, Sections 5.05 and Section 5.07.

The contents of this class specification shall not be construed to constitute any expressed or implied warranty or guarantee, nor shall it constitute a contract of employment. The City of Merced assumes no responsibility beyond the general accuracy of the document, nor does it assume responsibility for any errors or omissions in the information contained herein. The contents of this specification may be modified or revoked without notice. Terms and conditions of employment are determined through a meet and confer process and are subject to the Memorandum of Understanding currently in effect.

APPROVED  DATE 8-8-11
Chairperson, Personnel Board