

## FIRE EQUIPMENT MECHANIC

### NATURE OF WORK

This is skilled mechanical work at the journey level repairing and maintaining all types of fire apparatus and ambulance vehicles and related equipment.

Work involves determining the nature of the equipment malfunction; repairing and maintaining both automotive and diesel fire equipment including fire engines, ladder trucks, ambulances, air compressors, automobiles, and related equipment. Work also involves preparing records reflecting amount of time spent and replacement parts utilized in repairing equipment; and cleaning tools and work area. The work requires the use of automotive mechanics' tools as well as special types of tools, gauges, equipment, and machinery required for the repair of both automotive and diesel fire equipment. Supervision is received from the Deputy Fire Chief of Maintenance with work being reviewed in the form of the quality of repairs performed and effective operation of equipment.

### EXAMPLES OF WORK PERFORMED

Diagnoses, adjusts, repairs and maintains a wide variety of automotive and diesel fire equipment including air compressors, fire engines, ladder trucks and ambulances.

Repairs, overhauls and maintains specialized equipment on automotive and diesel fire equipment including pumps, valves, power take-offs, hydraulic systems and steering mechanisms; and repairs, builds or rebuilds special bodies.

Overhauls, repairs and maintains assemblies and accessories including single and two speed rear axles, multi-speed transmissions, hydraulic compression units, and electronic control systems and components.

Operates various types of shop equipment, machinery, precision instruments, specialized tools and devices including dynamometers, boring bars, valve refacing and reseating equipment, micrometers, dial gauges, wheel alignment gauges, clutch cover assembly devices, power saws, grinders, drill presses, and gas and electric welding equipment.

Tests fire equipment to locate defects in operation and as a check on repairs performed.

Prepares records reflecting amount of time spent and replacement parts utilized in repairing fire equipment.

Performs related work as required.

### DESIRABLE KNOWLEDGE, ABILITIES AND SKILLS

Considerable knowledge of the design, construction, repair and a maintenance of a wide variety of both conventional and specialized automotive, diesel fire, and ambulance vehicles.

Considerable knowledge of the usual types of automotive tools and equipment, as well as the specialized tools, gauges, machinery and shop equipment utilized in the repair, servicing and maintenance of both automotive and diesel fire equipment including the use of gas and electric welding equipment.

Knowledge of the operation of different types of automotive testing equipment.

Ability to diagnose the more common defects in the motors and bodies of heavy equipment and machinery.

Ability to detect by inspection any worn, defective or improperly adjusted part of the assembly.

Ability to determine the necessary procedures and parts required to complete repairs.

Ability to keep records of repair and service operations, and to complete reports.

Ability to establish and maintain effective working relationships with supervisors, co-workers and the general public.

Ability to follow oral and written instructions.

Ability to lift up to eighty pounds.

Skill in the use and operation of specialized tools and equipment utilized in the repair and maintenance of automotive, diesel fire and ambulance vehicles.

#### DESIRABLE TRAINING AND EXPERIENCE

Graduation from senior high school or equivalent supplemented by specialized vocational/technical school training with a degree in automotive repair or technology, and experience at the journey level as a heavy equipment mechanic.

#### MINIMUM QUALIFICATIONS

Graduation from senior high school or equivalent plus some experience as a journey level automotive and diesel mechanic involved in the repair and maintenance of heavy duty automotive, general automotive and diesel equipment; or any equivalent combination of training and experience which provides the desirable knowledge, abilities and skills. Candidates must also meet such specific physical requirements, as well as length and type of service requirements, as are established by the City.

#### NECESSARY SPECIAL REQUIREMENT

Possession of a valid driver's license when operating a vehicle is necessary to the satisfactory performance of assigned duties.

Automotive Service Excellence (A.S.E.) certification including one or more of the following Medium/Heavy Truck certifications; T2, T3, T4, T5, T6, and T7.