

CITY OF MILPITAS  
EFFECTIVE: May 16, 1995  
EEOC: Skilled Craft  
FLSA: Nonexempt  
UNIT: IAFF/Skilled Craft  
PHYSICAL: 2

### FIRE EQUIPMENT MECHANIC

#### DEFINITION

Under general supervision, this position will perform a variety of journey level duties associated with the maintenance and repair of fire equipment, trucks and fire apparatus. To schedule and coordinate the activities of the fire equipment maintenance operation.

#### SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from the Fire Operations Chief.

Receives some direction from the on duty Battalion Chief.

Exercises direct supervision over personnel assigned to assist.

#### EXAMPLES OF DUTIES - Duties may include, but are not limited to, the following:

Schedule and coordinate the activities of the fire apparatus and equipment maintenance program.

Provide instruction to department personnel on the maintenance and safe operation of fire vehicles and equipment.

Make initial inspections in difficult cases and diagnose mechanical defects.

Prepare detailed cost estimates and make recommendations regarding feasibility of major repairs.

Make recommendations whether or not to contract work out or handle in-house; monitor and administer outside contracts.

Prepare reports; maintain records of time, materials and equipment used; order supplies and materials.

Insure the adherence of safe work practices by personnel assigned to shop.

Check new equipment to ensure operational correctness.

## CITY OF MILPITAS

### Fire Equipment Mechanic (Continued)

#### EXAMPLES OF DUTIES

Oversee the departments preventive maintenance program and schedule apparatus and equipment preventive maintenance.

Insure proper adjustment and operation of charging, carburetion and other systems.

Road test and otherwise checks vehicles for proper operation and for detecting the source of problems.

Provide input and evaluate the specifications regarding the purchase of fire apparatus, equipment and shop tools.

Perform routine servicing and repairs on fire apparatus and other equipment as necessary.

Perform related duties as assigned.

#### QUALIFICATIONS

##### Knowledge of:

Methods, materials, and tools for the fire truck mechanic trade.

Repair and maintenance of equipment, i.e., Allison transmission, air brakes, relief valves, suction and discharge valves, secondary brake system, and hydraulic systems.

Repair and maintenance of fire pumps, i.e., Hale, Darley, and Waterous.

Occupational hazards and standard safety precautions relative to the work performed.

Principles and operations of gasoline and diesel engines.

Methods used in electric arc welding, oxyacetylene welding and metal fabrication.

Preventive maintenance techniques.

Principles of centrifical pumps and piping used on fire apparatus.

Principles of aerial ladder operations.

Principles of diesel engines, diagnostic equipment and hydraulics.

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Fire Equipment Mechanic (Continued)

Knowledge of:

Basic record keeping and inventory control methods.

Ability to:

Test annually from draft fire department pumpers.

Test annually the fire department aerial ladder truck.

Plan, lay out and assign the work of assigned shop workers.

Diagnose defects and repair a variety of fire equipment and vehicles.

Perform routine-to-complex mechanical repair work.

Operate and repair a variety of power and hand tools.

Work independently, understand and carry out verbal and written instructions.

Approved by:

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City Manager