



Chino Valley Fire District Position Classification

Lead Fire Equipment Mechanic

Position Summary

Under the supervision of the Deputy Chief of Support Services and their designee, the Lead Fire Equipment Mechanic schedules, assigns, and leads the work of equipment maintenance personnel, and performs highly skilled electromechanical work involving the diagnosis, maintenance, and repair work of a wide range of fire vehicles and apparatus; operates and demonstrates the proper use of vehicle testing and diagnostic equipment, and performs other related duties as assigned.

Essential Job Functions

The following are the duties performed by employees in this classification. However, this job specification is intended to identify essential functions and requirements of the job and should not be considered all-inclusive.

- Conduct orientation and training of new employees and ensure that safety practices and equipment maintenance standards are achieved.
- Perform the duties of a Fire Equipment Mechanic.
- Prioritize and assign tasks to fire maintenance personnel; explains work methods, demonstrate the operation of diagnostic equipment, and check work for conformance with quality and production standards.
- Lead and participate in complex or large-scale repairs and guide how the tasks are completed.
- Maintains shop inventory by coordinating standard part and tool purchases with vendors; tracks and updates parts and service records.
- Review service orders or work requests and independently diagnoses causes of more complex problems; determines the extent of needed repairs or adjustments and whether exterior repairs or manufacturer recall work might be required.
- Arrange for the delivery and return of fire vehicles and equipment as part of exterior repairs.
- Overhauls and repairs gas and diesel engines and transmissions, including valves, pistons, piston rings, main bearings, and crankshafts.
- Perform primary engine diagnosis involving testing, analysis, adjustments, and modifications of compression and hydraulic systems and emissions systems.
- Repair front suspension systems, including bushings, kingpins, tie rods, and ball joints.
- Consider how specialized electrical, electronic, mechanical adaptations of equipment can be completed in a cost-effective and timely manner, either with shop personnel or other service providers.
- Drive service vehicles and Fire apparatus into and out of the Fire Shop bays and other locations for maintenance work and to perform road test drives.
- Act on behalf of the Fleet and Facilities Coordinator during absences.
- Other duties as assigned.

Qualifications

Knowledge of:

- Knowledge of diagnosis and troubleshooting procedures required to solve significant maintenance and complex repair problems.
- Knowledge of operating principles of gasoline and diesel engines and fuel injection systems; mechanical tune-up, smog testing, and general repair and maintenance procedures and techniques.
- Knowledge of electrical, electronic, and heavy equipment hydraulic systems.
- Knowledge of overhaul practices related to transmissions, brakes, and rear axles
- Knowledge of methods, tools, materials, equipment, and procedures used to diagnose, overhaul, repair, and adjust the components and operating systems of automobiles, light-duty, and heavy-duty vehicles and equipment.
- Knowledge of safety procedures and precautions governing the operation, maintenance, and use of tools, vehicles, and equipment.
- Knowledge of primary arc and gas welding techniques.
- Knowledge of State and County regulations about the handling and disposal of hazardous waste and related clean air emission requirements.
- Knowledge of effective leadership techniques.

Ability to:

- Ability to plan, estimate, coordinate, and schedule the work of others.
- Work and act independently.
- Operate volt ohmmeter, amp meter, pressure gauges, nozzle, and valve repair kits, calibrating tools for engines, rakes, micrometers, dial calipers, welders, grinders, and torch, brazing rod, precision gauges, inspection, and diagnostic equipment.
- Read and follow the simple to complicated instructions, schematics, and other information in repair manuals and repair of fire and EMS vehicles and equipment.
- Performs calculations and works with numbers to solve problems.
- Prepare and maintain various reports and records about the piece; test, diagnose and evaluate electrical and mechanical malfunctions.
- Read and interpret plans, specifications, and manuals.
- Overhaul, repair, maintain and inspect automobiles, light and heavy-duty vehicles, and equipment.
- Demonstrate work methods and procedures, and equipment.
- Operation techniques to lesser skilled personnel and answer questions regarding diagnosis, trouble-shooting, and repair practices.
- Enforce safety rules and policies.
- Communicate effectively, both orally and in writing.
- Establish and maintain effective working relationships with staff, management, contractors, and vendors.
- Complete and check work service records and time reports.

Education and Experience Requirements:

Education:

- Equivalent to high school graduation or G.E.D., supplemented by vocational coursework, training, or certification in fire equipment technology.
- Class B or A CDL Driver License and acceptable driving record.

- ASE Mechanic certification is preferred.
- California Fire Mechanics Academy (CFMA) / Emergency Vehicle Technician (EVT) Level I, II, and III certifications are highly desirable.
- Must obtain Emergency Vehicle Technician I (EVT 1) certification within two years of hire date.
- Must obtain EVT II certification within three years of hire date.
- Must obtain EVT III certification within four years of hire date.
- Must pass a pre-employment drug screen, physical, criminal background check, polygraph examination, and psychological evaluation.

Experience:

- Four or more years of diagnosis, repair, and maintenance experience involving fire apparatus and light-duty vehicles and fire equipment, including diesel equipment.

Physical Profile

Work is performed in a typical automotive repair shop or fire station with the following characteristics:

- Mobility – frequent bending, twisting, reaching, kneeling, and lifting such as retrieving and replacing materials, supplies and inventory maintenance, and repairing vehicles and heavy equipment.
- Lifting – frequently up to 50 pounds; occasionally up to 75 pounds.
- Vision – constant use of overall vision; frequent reading and close-up work; occasional color and depth vision.
- Dexterity – frequent repetitive motion; regular repair tools; frequent grasping, holding, and reaching.
- Hearing/Talking – frequent hearing and talking, in person and on the phone.
- Emotional/Psychological – frequent decision-making and concentration; systematic supervisor and co-worker contact; occasional working alone.
- Environmental – Work is performed in an automotive repair shop or at a fire station; may be subject to exposure to extreme weather conditions, hazardous chemicals, and fumes common to automotive repair shops.
- Operates various emergency vehicles and equipment on an as-needed basis (for testing purposes)

FLSA Status: Non-Exempt
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