

HEAVY EQUIPMENT MECHANIC I

DEFINITION

Under close supervision, maintains and repairs medium and heavy automotive and construction equipment including City trucks, refuse trucks, trolleys, and other heavy duty vehicles and equipment.

SUPERVISION RECEIVED/EXERCISED

Receives supervision from an Equipment Supervisor. This class does not exercise supervision.

DISTINGUISHING CHARACTERISTICS

Heavy Equipment Mechanic I is an entry level class for candidates qualified to learn the duties of a Heavy Equipment Mechanic II. Incumbents apply mechanical skills while learning the special skills required to maintain medium and heavy construction, vehicle and mechanical equipment. This class differs from Heavy Equipment Mechanic II in that the latter is the journey level class in which incumbents are experienced in the diagnosis, maintenance and repair of medium and heavy vehicles, construction, and other equipment. This series differs from the Light Equipment Mechanic series in that the focus of the latter is on light automotive equipment repair. It differs from the Bus Mechanic series in that the focus of the latter is on buses and related transit equipment.

EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES

May include, but are not limited to the following:

Performs skilled tasks in the repair and maintenance of medium and heavy duty vehicles and equipment including City trucks, construction equipment, refuse trucks and related equipment.

Learns the disassembly, reassembly, preventative maintenance and inspection, diagnoses, installation, and repair of diesel, gasoline, and alternative fuel engines, drive train, brakes, suspension, steering, electrical including electrical systems, heating, ventilation and air conditioning and related components; and, correct use of corresponding tools and equipment.

Responds to road calls to repair heavy duty mechanical equipment.

Tests and inspects heavy-duty engines, transmissions, electrical systems, air compressors and other sub-systems.

Maintains records of work performed.

Maintains a clean work area and assists with the cleaning of shop areas and equipment and follows Occupational Safety and Health Administration (OSHA) and other required safety standards.

Performs related duties as required.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Knowledge of:

The methods, materials, and equipment used in the diagnosis, maintenance and repair of heavy-duty vehicles and equipment.

The operating principles of heavy-duty automotive engines and engine driven sub-systems.

The occupational hazards and safety precautions of the trade including the handling of hazardous materials.

Troubleshooting and diagnostic practices and techniques for heavy duty automotive vehicles, equipment, and related systems.

Skill/Ability to:

Properly and safely use hand and power tools and equipment used in automotive maintenance and repair.

Operate a motor vehicle safely.

Learn to diagnose malfunctioning mechanical and electrical systems and related sub-systems.

Operate computers and applicable software applications for basic data entry necessary for completion of assigned duties.

Establish and maintain effective working relationships with those contacted in the performance of assigned duties.

Read, write and perform shop math at the level required for successful job performance.

Understand and carry out verbal and written instructions.

Interpret and work from manuals, schematics, sketches, diagrams and work orders.

MINIMUM QUALIFICATIONS

Education:

Possession of a High School Diploma or equivalent GED completion.

Experience:

One (1) year of full-time paid experience performing routine maintenance and simple repairs on diesel, gasoline, or alternative fuel powered cars, trucks, buses, construction equipment, and other vehicles and equipment. A certification of completion or Associate's Degree from a recognized vocational, technical, or accredited college or university program in automotive or heavy equipment technology may be substituted for required experience.

Special Requirement(s):

Possess a valid California Class C Driver's License is required at the time of application and continued maintenance throughout the entire term of employment in this classification.

Within thirty (30) days of appointment must obtain a valid Commercial Instructional Permit.

Within twelve (12) months must obtain and maintain throughout the entire term of employment in this classification a valid Commercial Class B California Driver's License with required endorsements and without air brake restriction.

Within twelve (12) months of appointment, must possess and maintain throughout the entire term of employment in this classification the following two (2) valid certifications issued by the National Institute for Automotive Service Excellence (ASE) in the Medium-Heavy Truck (T) Series:

- Brakes (T4)
- Steering & Suspension (T5)

Incumbents must take the two (2) above certification examinations within the first six (6) months of appointment. Failure to obtain the ASE certifications within twelve (12) months of appointment will be cause for termination from this class.

This class is in a flexibly-staffed series, which requires twelve (12) months of satisfactory service within the series. A Heavy Equipment Mechanic I may be "flexed" as early as six (6) months upon recommendation of the appointing authority and upon possession of all necessary licenses and certifications. A Heavy Equipment Mechanic I who "flexes" early must still serve the remainder of their probationary period at the II

level, for a total twelve (12) months. If an employee is hired at the II level, they will be required to serve the twelve (12) month probationary period at that level.

PHYSICAL DEMANDS

The physical demands described here are representative of those that are necessary to safely, effectively, and efficiently perform the essential functions of this job with or without reasonable accommodation.

This classification's physical demands involve very heavy work which requires occasionally exerting in excess of 100 pounds of force occasionally with assistance, and/or in excess of 50 pounds of force frequently, and/or in excess of 20 pounds of force constantly to move objects. Additionally, the following physical demands may be required: balancing, bending, climbing, crawling, crouching, feeling, manual dexterity, grasping, gripping, handling, hearing, kneeling, lifting, mental acuity, pulling, pushing, repetitive motion, speaking, standing, stooping, talking, twisting, visual acuity, walking.

APPROVED: Signature on File DATE: 10/20/2025
Director of Personnel Services

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