

## EQUIPMENT MECHANIC II TRAINEE

### JOB DESCRIPTION

**Classification Responsibilities:** An Equipment Mechanic II Trainee works under immediate supervision to learn and become proficient in the technical aspects of repairing and servicing the City's heavy-duty fleet. This class will be a part of a three-year training program within Fleet Services during which the incumbents will train to perform technical tasks in the maintenance and repair of heavy-duty, gasoline and diesel-fueled equipment. Work will require a high degree of technical knowledge, and as increased work skill is attained this class will be expected to exercise increased independent judgment in determining repair methods as assignments increase in scope and responsibility. This class is also responsible for performing related duties as required.

**Distinguishing Features:** This is a trainee class generally working under the direction of a Senior Mechanic while learning to perform the full scope of duties of a heavy-duty Mechanic through an on-the-job training program. An employee of this class will be assigned to various shifts and work sites in order to train on all equipment. Employees are required to use the appropriate safety equipment and procedures in performing assigned tasks. The Equipment Mechanic II Trainee is supervised by a Shop Supervisor or Shop Foreman who assigns and reviews work through spot-check observation, conferences, problems encountered, and overall results achieved. This class is FLSA nonexempt.

### QUALIFICATIONS

**Employee Values:** All employees of the City of Mesa are expected to uphold and exhibit the City's shared employee values of Knowledge, Respect, and Integrity.

**Minimum Qualifications Required.** Graduation from high school or GED. Any combination of training, education, and experience equivalent to completion of a recognized diesel truck training program at an accredited trade school or community college, preferably accredited by the National Automotive Technicians Education Foundation (NATEF), or graduation from an accredited program with an Associate's Degree in Automotive Technology.

**Special Requirements.** Must provide own basic hand tools and rollaway box. Must possess a valid Arizona Driver's License by hire or promotion date. Must obtain an International Mobile Air Conditioning Association (IMACA) Certification to perform air conditioning work within 90 days of hire or promotion date. Three Automotive Service Excellence (ASE) Medium-Heavy Truck certifications are required within three years of hire or promotion date. Must meet the qualifications to wear a tight fitting respirator by passing a medical evaluation in accordance with Code of Federal Regulations (CFR) 1910.134 by hire or promotion date and must maintain certification (*by assignment*).

**Substance Abuse Testing.** Due to the safety and/or security sensitive nature of this classification, individuals shall be subject to pre-employment or pre-placement alcohol, drug and/or controlled substance testing as outlined in City policy and procedures.

**Preferred/Desirable Qualifications.** Knowledge and use of heavy-duty truck electronic diagnostic equipment including laptop-based programs, and familiarization with the use of internet based heavy-duty truck diagnostic procedures and information. One-year experience in the heavy truck repair industry. An Associate's Degree in Diesel Heavy Truck Technology or equivalent is highly desirable.

## ESSENTIAL FUNCTIONS

One position may not include all of the essential functions, knowledge and abilities listed, nor do the listed examples include all the knowledge and abilities which may be found in positions of this classification.

**Communication:** Communicates with coworkers and user departments to provide maintenance services for the City's vehicles and equipment. Prepares written repair order comment sheets and reports regarding equipment repair status.

**Manual/Physical:** An Equipment Mechanic II Trainee learns to perform the following: repair and adjust gasoline, compressed natural gas (CNG), and diesel engines, fuel systems, transmissions, and other mechanical devices; diagnose and repair brake systems and air conditioning systems; test, adjust, and repair fuel systems, transmissions, brake components, and other mechanical devices; perform vehicle emissions testing on gas or diesel engines; set hydraulic pressures to manufacturer specifications; troubleshoot and repair hydraulic and electrical problems, including stuck valves, damaged pumps, and bypassing cylinders; remove and install hydraulic cylinders and components; measure distances to determine wear values, such as brake drums and internal engine components, and to correct mechanical discrepancies; detect air leaks while inspecting air brakes; detect vapors from hydraulic, motor, and transmission oils, brake fluids, diesel fuel, gasoline, etc.; inspects equipment and vehicles to assist in problem diagnosis; and trace electrical systems. Operates vehicles and equipment requiring a standard Arizona Driver's License to road test equipment. Uses various hand tools, wrenches, air-powered tools, hydraulic jacks, etc., in completing repair work. Works with brake cleaners and solvents. Cleans work area and equipment. Uses a respirator when performing duties requiring exposure to hazardous fumes and/or when working in a confined space. Moves refuse to gain access to the area behind packer blades in performing repair work. Must be physically able to safely lift a minimum of 50 pounds. Moves heavy (50 - 800 pounds) objects, such as transmissions, engines, etc., with the assistance of a forklift or other device. Works in small, cramped areas, at heights greater than ten feet, in repairing lighting systems on vehicles and performing operational and safety inspections on aerial manlift equipment. Works in a variety of weather conditions in performing field service or road calls. Works around or uses potentially hazardous materials requiring the use of specialized equipment. Meets scheduling and attendance requirements.

**Mental:** An Equipment Mechanic II Trainee learns to perform the following: diagnose operational problems on heavy-duty equipment; such as engines, transmissions, brakes, hydraulic systems, etc., in order to determine the source of a problem; comprehend, interpret, and make inferences, and apply knowledge from shop service manuals to follow recommended repair procedures; troubleshoot hydraulic and electrical problems; and read and interpret schematic drawings in diagnosing and correcting wiring problems. Prioritizes own work assignments. Learns job-related material regarding electrical and hydraulic systems through on-the-job training. Learns proper repair techniques as recommended by the manufacturer in classroom settings.

**Knowledge and Abilities:** (The knowledge and abilities listed may not apply to all assignments.)

Knowledge of:

the hazards and safety precautions of the mechanic's trade;  
the methods, materials, tools, and standard practices of the heavy-duty mechanic's trade;

the principles of operation of internal combustion and diesel engines;  
steering and suspension systems, and electrical systems and equipment;  
the operating and maintenance requirements of heavy-duty equipment;  
the installation and repair of major systems, including: air conditioning, air brakes, and air systems;  
the state gas or diesel engine emissions testing requirements; and  
the techniques and practices of gas and arc welding.

Ability to:

diagnose and repair operational problems on heavy-duty equipment;  
understand and effectively carry out verbal and written instructions;  
prepare and maintain accurate work records of maintenance work;  
perform manual/physical essential functions of the class;  
meet scheduling and attendance requirements; and  
establish and maintain effective working relationships with management, coworkers, supervisors, and user departments.

The duties listed above are intended only as general illustrations of the various types of work that may be performed. Specific statements of duties not included does not exclude them from the position if the work is similar, related, or a logical assignment to the position. Job descriptions are subject to change by the City as the needs of the City and requirements of the job change.

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JOB FCTN-MEC

INCREMENTS 81-200

PAY GRADE: 44

IND-9410

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