

## Equipment Mechanic

<b>Job Code</b>	<b>Job Title</b>	<b>Pay Grade</b>
3066N3	Equipment Mechanic	21
3067N3	Equipment Mechanic Senior	23
3068N3	Equipment Mechanic Specialist	24

### CONCEPT:

This is highly skilled mechanical work involving the repair and maintenance of gasoline and diesel powered equipment used in the construction and maintenance of highways or other physical settings which are comparable.

### TASKS:

#### EM

- Performs all types of maintenance and repairs on all types of automotive equipment, including diesel and gasoline.
- Diagnoses malfunctions and troubleshoots to determine cause of failure; makes operational tests of systems. Makes working diagnoses of mechanical failure by means of visual and auditory checks and test equipment, such as voltmeters, armature growlers, brake testers, test stands, compression gauge testers, ohmmeters, and engine analyzers to determine the exact nature or extent of repair or adjustment necessary to complete work orders, and whether any additional repairs other than those stated in the work order are necessary.
- Removes, disassembles, repairs, adjusts, overhauls, modifies, reassembles, and installs or replaces engine and major assemblies, sub-assemblies, components, and systems such as fuel injection, hydraulic, and oil pressure systems.
- Makes repairs and adjustments such as toe-in and toe-out vehicles, wheel balancing and brake and clutch adjustments.
- May occasionally perform oxyacetylene and electric welding or blacksmithing, as in forming, bonding and tempering iron and steel.
- May assist in the training of lower level employees.
- Maintains standard shop records such as time, repair part orders and job orders.

#### EM Senior

- Performs full range of overhaul and repair work on light, medium, and heavy duty vehicles. Determines exact nature and extent of repairs required; performs major and minor overhaul and repair on engine assemblies, crossdrive and similar multi-system transmissions, final drive assemblies, complex hydraulic systems, electrical systems, fuel systems including carburetor, fuel injectors, fuel injector pumps, fuel pumps, suspension systems, starters, gauges, generators, hydraulic pumps, alternators, gear boxes, and cooling systems.
- Makes diagnoses of mechanical failure by use of specialized testing equipment such as engine analyzers, test benches, compression testers, pressure gauges, voltmeters, dial indicators, micrometers, etc. Troubleshoots, adjusts, and aligns parts and system components, fitting where necessary to insure satisfactory operation of interrelated systems. Makes road test and final inspection to be sure of proper performance.
- Instructs and leads subordinates in the repair and reconditioning of equipment commonly used in highway construction and maintenance activities; insures shop safety rules are followed and all shop equipment is kept clean and in good working condition.
- Approves requisitions for parts; keeps shop records; makes reports, supervises the maintenance of a perpetual inventory of all shop tools and equipment.
- Performs inspection of agency equipment and reports the condition of the equipment and any deviations from the standards and procedures of the equipment maintenance program; may act as teacher and trainer to improve equipment operators knowledge of the operation of their equipment and preventive maintenance.

## EM Specialist

- Plans and assigns work to mechanics in other shops; inspects work upon completion; diagnoses cases of mechanical failure on complex or unique equipment and determines the cost effectiveness of reconditioning or replacement. Makes road test or final inspection as required to insure proper performance.
- Supervises and instructs subordinates in the repair and reconditioning of complex heavy equipment commonly used on highway construction and maintenance activities.
- Approves requisitions for parts; keeps shop records and completes required reports; supervises the maintenance of a perpetual inventory of all shop tools and equipment.
- Acts as consultant to the area shops on unusual or complex repair problems. Inspects equipment for condition and effective servicing; completes inspection reports including deviations from standards and procedures of equipment maintenance program. Also, acts as instructor and trainer to improve equipment operators performance and preventive maintenance ability.

## LEVELS OF WORK

- Class Group consists of three classes.

**Equipment Mechanic:** Responsible for diagnosing difficult performance problems and improvising replacement, assembly, repair, and troubleshooting techniques when standard procedures do not suffice, and maintaining and repairing a variety of light, medium, and heavy duty equipment. Assignments may include inspecting the mechanical conditions of equipment, or providing training for less skilled mechanics or helpers in highly technical or specialized mechanical work, or providing leadership for an area shop.

**Minimum Requirements:** Six months of experience in automotive and/ or diesel mechanics to meet the needs of the agency. Education may be substituted for experience as determined relevant by the agency.

**Equipment Mechanic Senior:** This is highly skilled mechanical work. Responsible for diagnosing difficult performance problems and improvising replacement, assembly, repair, and troubleshooting techniques when standard procedures do not suffice, and maintaining and repairing a variety of light, medium, and heavy duty equipment. Assignments may include inspecting the mechanical conditions of equipment, or providing training for less skilled mechanics or helpers in highly technical or specialized mechanical work, or providing leadership for an area shop.

**Minimum Requirements:** One year of experience in automotive and/ or diesel mechanics to meet the needs of the agency. Education may be substituted for experience as determined relevant by the agency.

**Equipment Mechanic Specialist:** This is supervisory and consultative work with responsibility for maintenance and repair of gasoline and diesel powered equipment including a variety of heavy and complex vehicles. Manages a complete shop, prioritizing the work. May provide consulting services for satellite shops in a large geographic region.

**Minimum Requirements:** Two years of experience in automotive and/ or diesel mechanics to meet the needs of the agency. Education may be substituted for experience as determined relevant by the agency.

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REV: 9/14