



TRANSIT VEHICLE MECHANIC

FC: MA830
PG: MW-III

PC: 301
BU: 01
October 1987

DEFINITION

Under general supervision, performs skilled preventive maintenance, troubleshooting, primary and secondary repair, and modification to mechanical, electro-mechanical, pneumatic and hydraulic equipment and components found in revenue vehicles and supporting systems; performs related work as assigned.

CLASS CHARACTERISTICS

This is a journey level classification performing skilled preventive maintenance, repair and modification on all mechanical, electro-mechanical, pneumatic and hydraulic systems and components for the District's revenue vehicles and related support systems. Incumbents work independently in accordance to specifications, accepted standards of the trade, supervisory direction and District procedures and practices. This class is distinguished from other specialized mechanical maintenance classes in that the work relates specifically to the maintenance and repair of systems and components found on transit revenue vehicles.

EXAMPLES OF DUTIES

1. Performs preventive maintenance, testing and adjustment of mechanical, electro-mechanical, pneumatic and hydraulic systems and components of transit vehicles.
2. Troubleshoots and performs primary maintenance on such systems, removing and replacing components as required to enable the vehicles to be returned to revenue service.
3. Troubleshoots and performs secondary maintenance and repair on a variety of mechanical components such as doors, brakes, traction motors, and air conditioning so that they may be returned to use in revenue vehicles and related systems.
4. Performs major repair to vehicles involved in accidents.
5. Repairs interior components of vehicles such as seats, liners, doors and windows.
6. Performs modifications to revenue vehicles as directed by engineering and supervisory staff; suggests improvements and works with engineering and other maintenance staff regarding modifications.
7. Uses diagnostic test equipment and precision measuring devices in the course of the work; verifies performance of new or modified systems or equipment.
8. Works closely with transit vehicle electronic technicians in troubleshooting problems and

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performing primary repairs.

9. Reads and interprets diagrams, engineering drawings, manuals, schematics and work orders.
10. Measures, tests and inspects completed work to confirm adherence to specifications.
11. Uses shop equipment such as a wheel press and plating systems to recondition mechanical components; performs welding as required to complete assigned tasks.
12. Documents and records work performed and parts and materials used; follows specified safety procedures.

QUALIFICATIONS

Knowledge of:

Methods, equipment and materials used in the primary and secondary maintenance and repair of a variety of mechanical systems, components and equipment.

Methods, equipment and materials used in the maintenance and repair of electro-mechanical, pneumatic and hydraulic systems, components and equipment.

Use and care of testing and power and hand tools of the trade.

Troubleshooting and diagnostic techniques.

Shop arithmetic as required for the trade.

Safety practices and procedures pertaining to the work.

Skill in:

Diagnosing and repairing operational problems in a variety of mechanical, electro-mechanical, pneumatic and hydraulic systems, components and equipment.

Performing preventive maintenance on and modifications to mechanical and related systems and components.

Reading and interpreting engineering drawings, diagrams, manuals and work orders.

Using and maintaining hand and power tools and testing equipment of the trade.

Understanding and following oral and written directions.

Maintaining accurate records of work performed and materials used.

Establishing and maintaining effective working relationships with those contacted in the course of the work.

A typical way of gaining the knowledge and skills outlined above is:

Equivalent to completion of an apprenticeship in a mechanical trade and one year of journey level experience in the installation, maintenance or repair of mechanical systems and components similar to those found in the District's revenue vehicles; experience with electro-mechanical, hydraulic and pneumatic systems is desirable.

Other Requirements:

Must be physically capable of working in confining work spaces and lifting equipment weighing up to 70 pounds.

Must be willing to work weekends, holidays, off hours shifts and occasional emergency overtime.