



COMPOSITE VEHICLE MAINTAINER, DMU

JC: 000155

PG: 400

FLSA: Non-Exempt

BU: 1 (SEIU)

Created: February 2017

Updated: June 2021

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are **not** intended to reflect all duties performed within the job.*

DEFINITION

Under general supervision, performs safe, timely, operation, maintenance and repair of the Diesel Multiple Unit (DMU) rail vehicles, shop facilities and equipment, in compliance with the appropriate rules and regulations.

CLASS CHARACTERISTICS

This journey level classification performs skilled scheduled, unscheduled and emergency repair and modification maintenance on all mechanical systems and components for the DMU revenue vehicles include related subsystems and components as required by manufacturer maintenance and servicing manuals in compliance with Federal and State regulations and inspection and DMU vehicle maintenance procedures. This classification is distinguished from the DMU Rolling Stock Foreworker in the latter is responsible for supervising the day-to-day DMU Rolling Stock operations and activities.

REPORTS TO

DMU Rolling Stock Foreworker.

EXAMPLE OF DUTIES – *Duties may include, but are not limited to, the following*

1. Performs regular daily and preventive maintenance inspections, servicing, troubleshooting and repairs to DMU vehicles, including all subsystems and components as required by the manufacture's specifications, and California Public Utilities Commission (CPUC) regulations.
2. Inspects, troubleshoots, adjusts and repairs DMU subsystems, including: diesel engines, electric generators and traction motors, suspension and truck assemblies, couplers and train line, electro-pneumatic brake systems, air compressors, valves, locomotive cab control systems, heating, ventilation and air conditioning, electric door operators, lighting, communications, radio, cab signal, positive train control; performs fueling, sanding, and washing.
3. Responsible for and maintains the shop facilities and equipment by maintaining a safe, and clean shop and equipment.

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4. Operates revenue DMU vehicles within designated limits, in compliance with operating rules and regulations, to position them as needed to perform maintenance and tests, prepare vehicles/trains for revenue service, and shift them to and from the storage yard.
5. Follows Standard Operating Procedures, all applicable CPUC regulations, as well as District policies and procedures, safety rules and regulations.
6. Documents and records work performed and parts and materials used.
7. Trains and instructs other Composite Rail Vehicle Maintainers in inspection, troubleshooting, repair procedures, maintenance techniques and safety precautions as assigned.
8. Provide on-call duties for revenue rail vehicle maintenance, emergency response incidents and all other duties as assigned.
9. Must develop and maintain positive working relationships with co-workers, supervisors, contractors and customers, and effectively handle conflict situations.
10. May be assigned to perform inspection, maintenance and repair duties for all shop equipment, forklifts, cranes, jacks, transfer table, mechanical/electrical shop tools, shop vehicles, as necessary and as qualified.
11. May be assigned to perform scheduled and non-scheduled rail vehicle interior cleaning, exterior hand washing and heavy detail cleaning for DMU vehicles, as necessary.
12. May be assigned to perform general shop janitorial and organization including, emptying trash, sweeping, mopping and vacuuming floors, cleaning pits and other work areas such as offices and grounds, as necessary, and not to include restrooms.
13. Performs related work as assigned.

QUALIFICATIONS

Knowledge of:

- Transit vehicle electrical and mechanical systems/components, troubleshooting and repair
- Schematics, drawings and manuals of DMU vehicles
- Methods, materials, tools and equipment used in servicing, diagnosis, maintenance, overhaul and repair of DMU vehicles and equipment
- Principles of diagnosis and repair of passenger rail vehicles
- Mechanical systems involving diesel engines, electrical and pneumatic systems
- Safe working practices, including techniques for safely lifting and moving heavy objects
- Vehicle and equipment parts, accessories, parts assemblies and terminology
- Federal Railroad Administration (FRA) and Department of Transportation (DOT) Safety regulations, including hazardous material handling and storage, and disposal, effective working knowledge of railway operations, terminal operations

Skill/Ability in:

- Interpreting and applying oral and written instructions in a consistent manner
- The use of hand tools related to rail vehicle maintenance, such as pneumatic, electrical and hydraulic, and measuring instruments
- Computer usage including the word processing software
- Reading and understanding manufacturer blueprints and schematics
- Utilizing a maintenance management system; troubleshooting mechanical conditions
- Performing train servicing functions including washing, fueling, sanding and cleaning
- Dealing with individuals from various socio-economic groups, including the disabled in a tactful, calm and confident manner

MINIMUM QUALIFICATIONS

Education:

Possession of a high school diploma, GED or recognized equivalent.

Experience:

Five (5) years of verifiable journey level full-time work experience successfully performing mechanical, electrical and electronic diagnostic, maintenance and repair functions on large and complex vehicle, machinery and/or similar equipment which must include at least two (2) years in a rail transit environment.

Other Requirements:

- Must possess and maintain a valid California driver's license and have a satisfactory driving record
- Must be able to pass a pre-employment and bi-annual physical examination meeting the Class B licensing requirements established by the Department of Motor Vehicles (DMV)
- Must be able to obtain Class Two (2) DMU engineer certification within the initial probationary period
- Must retain DMU engineer certification
- Must possess a current Forklift Operator Certification or obtain one within the probationary period
- Must be willing to work off-hours shifts, holidays and weekends
- Must be available for on-call responsibility for vehicle maintenance related problems
- Must meet vision and color recognition requirements for signal identification and repair
- Demonstrates clear, effective oral, written and verbal communication skills in English in order to communicate through radio systems and write in daily logs

WORKING CONDITIONS

Environmental Conditions

Railroad, stations, maintenance facility environments; exposure to physical, electrical, chemical hazards and inclement weather conditions; the essential functions and responsibilities of this classification are performed in both a shop environment and outdoors in various weather conditions around moving vehicles and equipment; exposure to dust, noises, fumes, electrical, physical and mechanical hazards.

Physical Conditions

Ability to work in cramped overhead, confined, enclosed or awkward spaces including maintenance pits, equipment rooms and roof hatches;

Ability to stoop, bend, crouch, crawl, balance and climb and walk long distances over uneven terrain;

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Must be able to lift or position a fifty (50) pound object;
Ability to use hand tools to perform various equipment and vehicle maintenance activities.

BART EEO-1 Job Group: 5000 – Skilled Workers
Census Code: 7110 – Electronic Eq Insall/Rep, Veh.
Safety Sensitive: Yes