

Maintenance (not complete classification list)\*  
 12/1/18 rates used

Draft: 12/02/19

Code	Classification-	Entry	6 months	12 months	18 months	24 months	30 months	36 months	42 months	48 months
	<b>Bus Equipment Maintenance</b>									
934	<del>Apprentice Mechanics**</del>	\$22.24	\$23.55	\$24.79	\$26.06	\$27.38	\$28.45	\$30.11	\$31.17	
931	<del>Diesel Technician Journey worker Mechanic</del>	\$33.37								
New	Bus Electronics Technician	\$33.37								
New	Bus Body and Paint Technician	TBD								
	<b>Rail Equipment Maintenance</b>									
573	<del>LRV Apprentice Mechanics**</del>	\$22.24	\$23.55	\$24.79	\$26.06	\$27.38	\$28.45	\$30.11	\$31.17	
New	LRV Maintenance Technician Trainee	\$22.24	\$23.55	\$24.79	\$26.06	\$27.38	\$28.45	\$30.11	\$31.17	
New	LRV Overhaul Technician Trainee	\$22.24	\$23.55	\$24.79	\$26.06	\$27.38	\$28.45	\$30.11	\$31.17	
New	LRV Electronic Technician Trainee	\$22.24	\$23.55	\$24.79	\$26.06	\$27.38	\$28.45	\$30.11	\$31.17	
551	<del>LRV Maintenance Technician Journey worker LRV Mechanic</del>	\$33.37								
New	LRV Overhaul Technician	\$33.37								
New	LRV Electronic Technician	\$33.37								
552	Wheel True Technician	\$33.58								
553	Light Rail Vehicle Body & Paint Technician	\$25.37	\$27.00	\$28.73	\$30.46	\$32.40				
	<b>Facilities Maintenance</b>									
572	<del>Apprentice Plant Mechanic**</del>	\$22.24	\$23.55	\$24.79	\$26.06	\$27.38	\$28.45	\$30.11	\$31.17	
New	Facilities Maintenance Worker	\$31.79								
965	<del>Facilities Field Maintenance Worker Plant Maintenance Technician</del>	\$31.79								
557/968	<del>Facilities Technician – LME Plant Maintenance Mechanic</del>	\$33.37								

\* List doesn't include Service Workers/Helpers/Maintenance mechanics/Landscapers/etc – Proposal to come later.

\*\* The plan for current apprentices is to continue them as apprentices until they pass or leave the program

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	<b>Maintenance of Way</b>									
569	<del>Overhead Traction Apprentices**</del>	\$22.34	\$23.38	\$24.80	\$26.26	\$27.29		\$29.06		\$31.17
568	<del>Signal Maintainer Apprentices**</del>	\$22.24	\$23.55	\$24.79	\$26.06	\$27.38	\$28.45	\$30.11	\$31.17	
570	<del>Traction Substation Technician Apprentices**</del>	\$22.34	\$23.38	\$24.80	\$26.26	\$27.29		\$29.06		\$31.17
New	<b>Overhead Power Maintainer Trainee</b>	\$22.34	\$23.38	\$24.80	\$26.26	\$27.29		\$29.06		\$31.17
New	<b>Signal Maintainer Trainee</b>	\$22.24	\$23.55	\$24.79	\$26.06	\$27.38	\$28.45	\$30.11	\$31.17	
New	<b>Traction Substation Trainee</b>	\$22.34	\$23.38	\$24.80	\$26.26	\$27.29		\$29.06		\$31.17
531	<del>Overhead Power Maintainer Journey worker</del>	\$36.60								
541	<del>Signal Maintainer Journey worker</del>	\$34.94								
779	<del>Traction Substation Technician Journey worker</del>	\$36.60								
561	Maintenance of Way Laborers	\$18.64	\$19.93	\$21.28	\$23.25	\$25.54	\$27.86	\$30.13	\$32.72	
New	<b>MOW Track Maintainer Trainee</b>	TBD								
540	<del>Track Maintainer Journey worker</del>	\$34.94								
	<b>Field Fare Equipment</b>									
592	<del>Field Technician Apprentice**</del>	\$23.55	\$24.79	\$26.06	\$27.38	\$28.45	\$30.11	\$31.17		
New	<b>Field Technician Trainee</b>	\$23.55	\$24.79	\$26.06	\$27.38	\$28.45	\$30.11	\$31.17		
591	<del>Field Technician Journey worker</del>	\$36.60								

\* List doesn't include Service Workers/Helpers/Maintenance mechanics/Landscapers/etc – Proposal to come later.

\*\* The plan for current apprentices is to continue them as apprentices until they pass or leave the program



# Bus and NRV Vehicle Body and Paint Technician

## Job Description

### Job Information

<i>Title</i>	<b>Bus and NRV Vehicle Body and Paint Technician</b>
<i>Established Date</i>	10/10/2019 12:00:00 AM
<i>Revision Date</i>	
<i>Salary Grade:</i>	
<i>Reports To:</i>	Manager, Bus Maintenance - (246)
<i>Shift:</i>	All
<i>Division:</i>	Maintenance
<i>FLSA Classification:</i>	Non-Exempt

### JOB SUMMARY

*This job description is not to be construed as an exhaustive list of responsibilities or requirements. Employees may be required to perform other related job responsibilities.*

Perform Bus and Non-Revenue Vehicle (NRV) body shop work, including preparation of car bodies for application of car body vinyl wrap, installed by others, and repair and paint of damaged or deteriorated LRV car bodies.

*Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.*

### DISTINGUISHING CHARACTERISTICS

### PRIMARY RESPONSIBILITIES

<i>Responsibility</i>	<i>Essential Function*</i>
Follow supervisors' instructions as to assigned Bus/NRV body shop work tasks, and how much time each assigned task should take. Review damage reports and inspect body or frame damage or deterioration and scope of needed repairs. Plan body or frame repair work to be performed.	
Sand areas to be painted, or to be covered with body vinyl wrap. Cover windows, trim, molding, and other parts to prepare the body for installation of vinyl wrapping, performed by others.	
Remove and replace all vehicle parts and accessories necessary to complete body and frame repairs.	
Fit and weld replacement parts into place, using wrenches and welding equipment, and grind down welds to smooth them using power grinders and other tools.	
Perform sheet metal fabricating to complete body and frame repair.	
Prime and paint repaired surfaces, using paint spray guns and motorized sanders.	
Repair and replace vehicle windshields, windows, interior panels, seats, seat cushions, and flooring as necessary.	
Inspect completed work to ensure desired appearance or proper weld is achieved.	
Accurately and thoroughly document work performed daily.	
Maintain a clean and organized work area.	
Use District tools, parts and supplies safely and efficiently. Follow all District safety training and use all District personal protective equipment (PPE) applicable to body shop work tasks.	
Perform the duties of a higher or lower classification as required, on a temporary basis.	

*\*An essential function is a primary responsibility that if removed would fundamentally change the primary purpose of the job.*

### MINIMUM QUALIFICATIONS

*The Minimum Qualifications listed below are representative of the knowledge, skill, and/or ability required and must be bona-fide requirements. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

### Education

<i>Education Level</i>	<i>Degree Discipline</i>	<i>Required / Preferred</i>	
H.S. Diploma	High School diploma or GED.	Required	

*Or any equivalent combination of training or experience.*

### Work Experience

*Total Years Credited Experience*

<i>Specific Years of Experience</i>	<i>Specific Type of Experience</i>	<i>Required / Preferred</i>	
3 Years	Demonstrated experience in vehicle body repair and painting at a commercial vehicle body / collision repair and paint enterprise or public sector fleet maintenance operation.	Required	Or
1 Year	One year of the above-referenced experience.	Required	And

*The amount of credit a candidate receives for prior years of experience is based on the relevancy of that experience to the required or preferred prerequisites of the job description. Experience is prorated based on hours worked. LRHR assign and validate the "credited experience".*

### Other Requirements

### Licenses and Certifications

<i>Enter Licenses/Certifications</i>	<i>Lic/Certification Details</i>	<i>Required / Preferred</i>	<i>Time Frame to Complete</i>	
	Auto Collision Repair Technology, including Body Painting, from a Community College	Required		Or
	Combination of a certificate in Auto Collision Repair Technology from a Community College, and a certificate in Auto Body Painting from a Community College	Required		

### Drivers Licenses and Driving Record Requirement

<i>Required / Preferred</i>	<i>License Type</i>
Required	Possess a valid and active driver's license for the past three (3) years. Ability to secure Oregon or Washington CDL Class "A" license, with passenger endorsement and no restrictions on airbrakes. Safe driving record, meeting the established criteria. Ability to obtain Class B Commercial Driver's License (CDL) permit prior to start date.

### Knowledge, Skills, and Abilities

<i>Type</i>	<i>KSA</i>
Knowledge	Vehicle body and collision repair and vehicle painting practices and procedures.
Knowledge	Tools and equipment used to perform vehicle body repairs and vehicle painting.
Skill	Effectively using and operating tools and equipment required for body shop work.
Ability	Work with equipment (lifts, ladders) at various heights to perform body shop work.
Ability	Communicate effectively both orally and in writing understand and follow oral and written instructions and work independently under supervision.
Ability	Establish and maintain effective working relationships with those contacted in the course of work, using principles of good customer service.

## Knowledge, Skills, and Abilities

Type	KSA
Ability	Must be available to work five consecutive days including Saturday and Sunday and/or holidays as scheduled.
Ability	Must be available to work any one of three shifts - day, evening, or night as scheduled, and report to either of the rail maintenance facilities.
Ability	Ability to pass required physical examination with drug screen, and meet the physical activity requirements of the job, including routine standing, walking, climbing, pushing, pulling, fine hand and finger manipulations, balancing, lifting and carrying of objects weighing up to sixty-five (65) pounds.

## WORKING CONDITIONS

### Primary Work Space

Location	% of Time
	100%

### Physical Surroundings

Working Condition	Frequency	Identify specific working conditions

*The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

### Hazardous Conditions

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### Travel Requirements

Travel	Description of Travel	Degree of Travel	Percentage of Travel

## ADA Statement

*As applied to the workplace, applicants and employees must be qualified to perform the essential functions of the job with or without reasonable accommodation. Essential functions may include required job functions performed infrequently as well as production standards related to the quality and quantity of work. If a person with a disability could meet job qualifications with a reasonable accommodation, TriMet will work with the employee to accommodate the need. If TriMet's accommodation is effective in allowing the employee to perform the essential functions of the job, it need not be the employee's preferred accommodation.*

# Bus Electronics Technician

## **Job Description**

### **Overview of Position:**

The Electronic Repair Technician diagnoses and repairs electronic fare box, cctv, and destination signs. All work performed must be of the highest quality ensuring systems are reliable and functioning correctly. Employee is required to work in such a manner that promotes a safe and productive work environment.

## **Responsibilities**

### **Key Responsibilities:**

- Diagnoses coach electronic equipment problems using a variety of diagnostic equipment including the multi-meter, laptop, computer, schematics and wiring diagrams on site and on road calls
- Repairs revenue collection equipment as required
- Repairs may include, but not limited to, coach fare box, cctv systems and destination signs. This could also include card reader, bill transports, coin mechanisms, and other types of equipment.
- Completes paperwork needed to initiate the warranty process if applicable
- Tracks and reviews repair information from files; investigating repetitive problems or existing fleet defects on parts under warranty
- Performs scheduled maintenance on all systems as required.
- Completely documents all work performed in MMIS Software system
- Repair video surveillance as required
- Assists other mechanics as requested and performs other duties as assigned
- Repair and diagnose INIT, HOP and Milestone systems on transit buses
- Has moderate contact with others outside the organization and vendors

### **Key Responsibilities:**

- Diagnoses and repairs major electronic systems
- Performs preventative maintenance
- Performs other duties as assigned

- Clean work area

### **Prerequisites**

- High school diploma or equivalent.
- AS Degree in Electronics Technology or other related degree, or equivalent U.S. military training may be considered.
- Two years' demonstrated experience as an electronics repair technician.
- Or any equivalent combination of experience and training.
- Possession of or the ability to obtain, a valid Oregon Class "B" Commercial Driver License (CDL) with an air brake endorsement or the State of Washington equivalent.
- Upon verification of a prior experience, applicant must pass a qualifying written examination related to the Selection **Criteria listed below**.

### **Skills and Knowledge Required:**

- Elementary radio skills required
- Must have computer word processing skills
- Must have basic math skills
- Must have knowledge of the warranty process
- Must be able to work amid constant interruptions
- Must have the ability to prioritize and be detail oriented
- Must have basic understanding of codes and regulations
- Must be autonomous and self-directed
- Must have the knowledge and ability to perform micro-processing wiring and repair and controller wiring and repairs
- Must have an in depth understanding of the principles of the profession and systems on active fleet
- Must be able to use diagnostic equipment such as a computer (laptop), multi-meter, schematics and wiring diagrams, various hand tools, various pneumatic tools, two-way radio

- Must have the ability to communicate diagnostic information, schematics, and electrical problems both verbally and in written form to Maintenance staff and outside vendors

### **Knowledge, Skills & Abilities**

1. Knowledge of: electrical and electronics theory, design concepts, equipment, hardware, troubleshooting and repair techniques related to electrified rail transit vehicle system components, including applicable electrical and materials codes and standards.
2. Demonstrated ability to read and interpret electrical and mechanical plans, drawings and specifications.
3. Ability to effectively communicate and document maintenance work and instructions, maintain test records, and assist in developing operating procedures.
4. Ability to safely work.
5. Ability to gain specific knowledge relating to TriMet transit vehicles.
6. Demonstrated ability to maintain a satisfactory level of dependability and reliability for technician work performance both individually and as a member of a team of technicians, and attendance.
7. Ability to understand and comply with District's safety rules, operating procedures, rules and regulations.
8. Ability to perform all essential functions, with or without reasonable accommodations.
9. Must pass required physical examination with drug screen, and meet the physical activity requirements of the job.





## Diesel Technician Job Description

### Job Information

<b>Title</b>	<b>Diesel Technician</b>
<b>Established Date</b>	1/14/2015 12:00:00 AM
<b>Revision Date</b>	
<b>Salary Grade:</b>	
<b>Reports To:</b>	Supervisor, Maintenance - (252)
<b>Division:</b>	COO
<b>FLSA Classification:</b>	Non-Exempt

### JOB SUMMARY

*This job description is not to be construed as an exhaustive list of responsibilities or requirements. Employees may be required to perform other related job responsibilities.*

Perform and support a wide variety of repair and maintenance services on the District-owned Revenue Service Transit vehicles. These services include, but are not limited to: rebuild, repair and maintain engines, transmissions, differentials, all gear components and related component parts repair and maintain passenger/operator seating and upholstery complete repairs to the body and structure, prepare, and paint provided welding, metal fabrication and machining services as necessary. Perform similar duties to District-owned Non-Revenue vehicles (NRVs).

*Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.*

### DISTINGUISHING CHARACTERISTICS

### PRIMARY RESPONSIBILITIES

Responsibility	Essential Function*
<p>Diagnose equipment system malfunctions (i.e., electrical, air brakes, suspension, heating and cooling systems, transmission, engine, lift, etc.). Identify any defective component or components. Complete all necessary repairs and replace any defective components.</p> <p>Perform road call service on defective equipment when required. Identify the problem and take appropriate action to return vehicle to revenue service or to the garage.</p> <p>Perform preventive maintenance inspections as assigned and determine vehicle condition by conducting inspections and diagnostic tests; identifying worn and damaged parts.</p>	
<p>Diagnose engine, engine component malfunctions and transmission defects. Identify defective components and complete repairs. Accurately fill-out/complete, and submit to the supervisor, parts issue slips and repair order/time tickets.</p> <p>Use District equipment, parts, and supplies in a safe and efficient manner. Report any defects as needed.</p> <p>Perform battery charging and maintenance when required</p> <p>Repair and replace windshields, windows and mirrors as necessary.</p> <p>Repair and replace vehicle interior parts and accessories.</p> <p>Perform frame repairs and rubber flooring installation.</p> <p>Perform machining operations by using metal turning lathes, drill presses, shapers, power backsaws, grinders, welding equipment and related hand tools.</p>	
<p>Maintain a clean and organized work area.</p>	
<p>Tag defective parts in support of the maintenance warranty program.</p>	

*\*An essential function is a primary responsibility that if removed would fundamentally change the primary purpose of the job.*

### MINIMUM QUALIFICATIONS

*The Minimum Qualifications listed below are representative of the knowledge, skill, and/or ability required and must be bona-fide requirements. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

Education			
Education Level	Degree Discipline	Required / Preferred	
H.S. Diploma	A minimum of a high school diploma or equivalent is required.	Required	

Or any equivalent combination of training or experience.

Work Experience	
Total Years Credited Experience	

Specific Years of Experience	Specific Type of Experience	Required / Preferred	
<del>2 Years</del> 18 months	Two years 18 months of training in Diesel Technology and power systems at an accredited school or training program.	Required	And
<del>5-2</del> Years	Five-Two years experience working as a heavy duty diesel mechanic.	Required	And
	Any equivalent combination of experience and training.		
	Transit agency and/or trucking fleet experience is preferred.	Preferred	

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Other Requirements	

Drivers Licenses and Driving Record Requirement	
Required / Preferred	License Type
Required	Valid Oregon Driver License. Possession of, or the ability to obtain, a valid Oregon Class "A" Commercial Driver License (CDL) with passenger (P) endorsement and without air brake restriction, and with a valid DOT medical card.

Knowledge, Skills, and Abilities	
Type	KSA
	Ability to operate District revenue and service vehicles.
	Knowledge of maintenance and repair practices and procedures.
	Knowledge of engine rebuild procedures.
	Knowledge of maintenance and repair of transmissions and their components.
	<del>Knowledge of body repair practices and procedures.</del>
	Knowledge of welding and sheet metal fabricating.
	Knowledge of machine practices and procedures.
	Knowledge of maintenance and repair of differentials and gear components, including steering gears and flexible coupling transmissions.
	Knowledge of vehicle upholstery procedures.
	Ability to communicate effectively both orally and in written form.
	Ability to establish and maintain effective working relationships with employees, management, and the general public.
	Ability to work weekend, graveyard, swing, or day shifts and attend work on a regular basis.
	Ability to successfully complete certification and recertification training as appropriate.
	Must pass required physical examination with drug screen, and meet the physical activity requirements of the job, including the ability to safely lift up to 50 pounds.

Knowledge, Skills, and Abilities

Type	KSA
Ability to perform all essential functions, with or without reasonable accommodation.	

**WORKING CONDITIONS**

Primary Work Space

Location	% of Time
	100%

Physical Surroundings

Working Condition	Frequency	Identify specific working conditions

*The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

Hazardous Conditions

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Travel Requirements

Travel	Description of Travel	Degree of Travel	Percentage of Travel

**ADA Statement**

*As applied to the workplace, applicants and employees must be qualified to perform the essential functions of the job with or without reasonable accommodation. Essential functions may include required job functions performed infrequently as well as production standards related to the quality and quantity of work. If a person with a disability could meet job qualifications with a reasonable accommodation, TriMet will work with the employee to accommodate the need. If TriMet's accommodation is effective in allowing the employee to perform the essential functions of the job, it need not be the employee's preferred accommodation.*



**Maintenance TechnicianFacilities  
Field Maintenance Worker**

Job Description

Job Information

Title	<del>Maintenance TechnicianFacilities Field Maintenance Worker</del>
Established Date	11/26/2013 12:00:00 AM
Version Date:	5/30/2019 5:50:26 PM
Salary Grade:	
Reports To:	Supervisor, Facilities Management (CMMS) - (1210)
Division:	Maintenance
FLSA Classification:	Non-Exempt

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**JOB SUMMARY**

*This job description is not to be construed as an exhaustive list of responsibilities or requirements. Employees may be required to perform other related job responsibilities.*

Maintain signs, bus shelters, and other District properties or fixed plant facilities.  
*Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.*

**DISTINGUISHING CHARACTERISTICS**

**PRIMARY RESPONSIBILITIES**

Responsibility	Essential Function*
Install, repair, and maintain bus stop signs, poles, shelters, and stop amenities throughout the District.	
Evaluate sign and shelter conditions through field inspections. Procure appropriate materials and supplies required for repair and maintenance and monitor parts inventory. Investigate requests and complaints.	
Evaluate conditions and identify repair needs at transit center facilities. Inspect installation of shelters and other waiting area amenities. Document repairs and communicate deficiencies to appropriate supervisory personnel.	
<u>General facilities maintenance work: Changing filters changing light bulbs unclogging toilets; and minor concrete, brick painting work.</u>	
<u>Maintaining parking lots, buildings and platforms, including striping, signage, minor asphalt and concrete work, brick work, replacing pavers, snow and ice removal, unclogging rainwater system, changing filters, and minor fence repair</u>	
Assist in development of organizational tools necessary to perform maintenance tasks efficiently and effectively.	
Assist employees in general repair or maintenance procedures when needed.	
Install and repair other TriMet information, monument, and directional signs <del>and</del> -displays <u>and bulletin boards.</u>	
Maintain bus stop and shelter databases.	

*\*An essential function is a primary responsibility that if removed would fundamentally change the primary purpose of the job.*

**MINIMUM QUALIFICATIONS**

*The Minimum Qualifications listed below are representative of the knowledge, skill, and/or ability required and must be bona-fide requirements. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

Education		
Education Level	Degree Discipline	Required / Preferred
H.S. Diploma	A minimum of a high school diploma or equivalent is required.	Required

Or any equivalent combination of training or experience.

### Work Experience

Total Years Credited Experience

Specific Years of Experience	Specific Type of Experience	Required / Preferred	
	<del>Experience in using a Maintenance Management Information System is required.</del>	Required	And
4 Years	<del>Four years of eExperience in TriMet Facilities Maintenance Department is preferred relating to building and machine maintenance trades.</del>	Preferred	Or
	<del>Equivalent experience relating to building and machine maintenance trade is preferred.</del>	Preferred	

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### Other Requirements

### Drivers Licenses and Driving Record Requirement

Required / Preferred	License Type
Required	Possession of a current driver's license valid in the State of Oregon (required).

### Knowledge, Skills, and Abilities

Type	KSA
	Thorough knowledge of TriMet route system and operational procedures.
	Knowledge of current transportation and marketing programs and functions.
	Knowledge of Standard Operating Procedures and requirements for sign and shelter installation, maintenance, and repair within multiple jurisdictions. Knowledge of Manual of Uniform Traffic Control Devices (MUTCD). Ability to effectively communicate in oral and written forms ability to communicate clearly using a radio.
	Ability to perform maintenance and repair work, including concrete construction, asphalt patching, pavement striping, metal fabrication, and glass installation.
	Ability to safely operate and care for District hand, air, electric, and gas-powered portable tools, equipment, and vehicles.
	Ability to perform all physical requirements of assigned duties, including, but not limited to, lifting and moving heavy objects weighing up to <del>50</del> <u>65</u> pounds.
	Ability to work effectively with the public to resolve concerns in a professional and timely manner.
	Ability to apply creative problem-solving skills to work situations and use independent judgment.
	Ability to operate a computer.
	Ability to establish and maintain effective working relationships with employees, management and the general public, including those from culturally diverse backgrounds, the elderly, persons with disabilities and/or other vulnerable populations.

## WORKING CONDITIONS

Primary Work Space	
Location	% of Time
	100%

Physical Surroundings		
Working Condition	Frequency	Identify specific working conditions

*The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

Hazardous Conditions

Travel Requirements			
Travel	Description of Travel	Degree of Travel	Percentage of Travel

**ADA Statement**

*As applied to the workplace, applicants and employees must be qualified to perform the essential functions of the job with or without reasonable accommodation. Essential functions may include required job functions performed infrequently as well as production standards related to the quality and quantity of work. If a person with a disability could meet job qualifications with a reasonable accommodation, TriMet will work with the employee to accommodate the need. If TriMet's accommodation is effective in allowing the employee to perform the essential functions of the job, it need not be the employee's preferred accommodation.*

### **Job Description**

Performs entry level and semiskilled maintenance, repair and cleaning of TriMet facilities including: parking lots and structures, platforms, buildings, etc. The person in this position will be expected to work independently on a daily basis, prioritizing and completing tasks such as drain clearing, carpentry, painting, and general building maintenance with minimal supervision. This position is also expected to work collaboratively assisting skilled tradespeople and journey-level mechanics in activities in work requiring a license

Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.

### **Essential Functions**

1. Makes simple repairs on existing plumbing such as clearing drains, replacing parts and fixtures.
2. Repair and maintenance work of a simple nature such as building fences, repairing sheds and similar structures; hangs doors; frames walls, use simple power tools such as drills, saws, and planes; pour concrete, asphalt patching, pavement striping, metal fabrication, and glass installation.
3. Repair and maintenance work in cleaning surfaces to be painted by use of scrapers and dusters, applies paints to surfaces such as walls, beams, and girders; mixes and applies plaster.
4. Under guidance of an LME: assists in installation and maintenance of wiring systems and electrical fixtures and equipment; replaces fuses; assists in stringing wires; replaces bulbs and globes.
5. Repair and maintenance work to small motors such as lawn mowers, water pumps, and fans. Change filters, check for leaks, and make simple repairs not requiring a license.
6. General facilities maintenance work: Changing filters changing light bulbs unclogging toilets; and minor concrete, brick painting work,
7. Repair and maintenance work on items such as valves, fittings, grates, roofing, and sheet metal articles; uses tools and equipment of various trades such as pipe cutters, saws, drills, planes, sanders, and shears, drives truck to run errands and deliver supplies. Inspects condition of supplies and materials used in performing tasks, reports problems or concerns to supervisor.

### **Prerequisites**

A minimum of a high school diploma or equivalent is required.

Basic computer and mobile technology proficiency (required).

Experience documenting work completed.

Possession of a current driver's license valid in the State of Oregon (required).

Four years of experience in facilities maintenance in a commercial setting, or equivalent experience relating to building and machine maintenance trades.

Or any equivalent combination of experience and training.

Successful completion of a technical skills assessment administered by TriMet.

### **Knowledge, Skills & Abilities**

1. Knowledge of maintenance and repair related to basic plumbing, painting, carpentry, pavement, and metal work
2. Ability to use tools associated with maintenance and repair related to basic plumbing, painting, carpentry, pavement, and metal work.

## Facilities Maintenance Worker - DRAFT - NEW

3. Ability to effectively communicate in oral and written forms; ability to communicate clearly using a radio.
4. Ability to perform maintenance and repair work, including concrete construction, asphalt patching, pavement striping, metal fabrication, glass installation, painting, simple plumbing and electrical and other repair and maintenance activities not requiring a license.
5. Ability to safely operate and care for District hand, air, electric, and gas-powered portable tools, equipment, and vehicles.
6. Ability to perform all physical requirements of assigned duties, including, but not limited to, lifting and moving heavy objects weighing up to 65 pounds.
7. Ability to work effectively with the public to resolve concerns in a professional and timely manner.
8. Ability to apply creative problem-solving skills to work situations and use independent judgment.
9. Ability to operate a computer.
10. Ability to establish and maintain effective working relationships with employees, management and the general public, including those from culturally diverse backgrounds, the elderly, persons with disabilities and/or other vulnerable populations.





**Journeyman Plant  
Maintenance Facilities Technician  
LME -Mechanic  
Job Description**

**Job Information**

Title	<b>Facilities Technician - LME Journeyman Plant Maintenance Mechanic</b>
Established Date	7/28/2016 12:00:00 AM
Version Date:	5/28/2019 2:00:54 PM
Salary Grade:	
Reports To:	Supervisor, Maintenance Facilities Management - (488)
Division:	Operations
FLSA Classification:	Non-Exempt

**JOB SUMMARY**

*This job description is not to be construed as an exhaustive list of responsibilities or requirements. Employees may be required to perform other related job responsibilities.*

**Under minimum supervision, perform a variety of skilled maintenance and repair work relating to TriMet facilities and equipment.**

*Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.*

**DISTINGUISHING CHARACTERISTICS**

**PRIMARY RESPONSIBILITIES**

Responsibility	Essential Function*
Maintain and repair fixed and right-of-way building systems, equipment, and structures.	
Maintain and repair station platforms, transit centers, park and ride lots, various right-of-way items and TriMet system amenities and equipment.	
Coordinate work with other agencies (city, county, state, and federal) and outside contractors relating to areas of responsibility.	
Document, review, track, and update maintenance policies and procedures as they relate to areas of responsibility.	
Establish parts and equipment stock with Stores Department and various vendors.	
Assist with various emergency situations including rerailling operations.	
<del>Test, repair and replace backflow prevention devices.</del>	

*\*An essential function is a primary responsibility that if removed would fundamentally change the primary purpose of the job.*

**MINIMUM QUALIFICATIONS**

*The Minimum Qualifications listed below are representative of the knowledge, skill, and/or ability required and must be bona-fide requirements. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

**Education**

Education Level	Degree Discipline	Required / Preferred
H.S. Diploma	A minimum of a high school diploma or equivalent is required.	Required

*Or any equivalent combination of training or experience.*

Work Experience	
Total Years Credited Experience	

Specific Years of Experience	Specific Type of Experience	Required / Preferred	Or
5-2 Years	<p><del>Relating to building and machine maintenance trades</del> Five years at a journeyman level in the maintenance, repair and alterations of electrical and mechanical equipment relating to the buildings and machine maintenance trade is required.</p> <p>Completion of TriMet's Plant Maintenance Mechanic apprentice program is required.</p>	Required	Or

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The amount of credit a candidate receives for prior years of experience is based on the relevancy of that experience to the required or preferred prerequisites of the job description. Experience is prorated based on hours worked. LRHR assign and validate the "credited experience".

Other Requirements	

Licenses and Certifications				
Enter Licenses/Certifications	Lic/Certification Details	Required / Preferred	Time Frame to Complete	And
	Possession, at a minimum, of a State of Oregon Limited Maintenance Electrician's License.	Required		And
	<del>Applicant must pass a qualifying examination related to the selection criteria.</del>	Required		

Drivers Licenses and Driving Record Requirement	
Required / Preferred	License Type
Required	Possession of, or the ability to obtain, a valid Oregon Class "A" Commercial Driver License (CDL) or State of Washington equivalent, and a DOT medical card.

Knowledge, Skills, and Abilities	
Type	KSA
	Demonstrated knowledge and ability to interpret plans, drawings, sketches, blueprints, and troubleshoot from technical manuals and schematic diagrams.
	Demonstrated working knowledge of electrical and mechanical theory, plumbing, equipment and building related systems.
	Demonstrated ability to understand and comply with the District's Safety Rules, Policies, Operation's Standard Operating Procedures, Rules and Regulations, as well as various governmental agency codes.
	Demonstrated ability to operate the District's radio and telephone communication system, including but not limited to mobile phones and computers, in compliance with the regulations and procedures.
	Ability to communicate effectively in written and oral forms.
	Ability to troubleshoot and repair various shop and wayside equipment, including but not limited to wheel truing machines, vehicle and equipment lifts, wash racks, lathes, compressors and other motors and pumps.
	Ability to operate various equipment including but not limited to: motor vehicles, manlifts, forklifts, various metal and wood fabrication equipment.
	Ability to work graveyard, swing, or day shifts.
	Ability to work in deep underground tunnels and passageways and at high elevations (rooftops, building walls).
	Ability to walk on irregular surfaces and work in tight confined right-of-ways with high speed trains.
	Continued employment is contingent upon successful completion of certification and recertification training as appropriate.

### Knowledge, Skills, and Abilities

Type	KSA
	Ability to work assigned consecutive 5-day shift, and report to any TriMet Maintenance Facility throughout the Portland-Metro region.
	Ability to pass required physical examination with drug screen, and meet the physical activity requirements of the job, including routine standing, walking, climbing, pushing, pulling, fine hand and finger manipulations, balancing, lifting and carrying of objects weighing up to sixty-five (65) pounds.

### WORKING CONDITIONS

#### Primary Work Space

Location	% of Time
	100%

#### Physical Surroundings

Working Condition	Frequency	Identify specific working conditions

*The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

#### Hazardous Conditions

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#### Travel Requirements

Travel	Description of Travel	Degree of Travel	Percentage of Travel

### ADA Statement

*As applied to the workplace, applicants and employees must be qualified to perform the essential functions of the job with or without reasonable accommodation. Essential functions may include required job functions performed infrequently as well as production standards related to the quality and quantity of work. If a person with a disability could meet job qualifications with a reasonable accommodation, TriMet will work with the employee to accommodate the need. If TriMet's accommodation is effective in allowing the employee to perform the essential functions of the job, it need not be the employee's preferred accommodation.*

# Field Technician Trainee

## Job Description

This is an entry level position leading to promotion as a Field Technician. Trainees are responsible for sufficiently completing all assigned formal training and On-the-Job Training (OJT) assignments. During OJT assignments, trainees work under supervision of a Shift Supervisor and/or Field Technician. As Trainees become proficient at tasks, they may be assigned to work more independently. This is skilled electronic maintenance work requiring a thorough knowledge of electronics theory and practices, computer hardware, software and networks, fiber-optics, and wired and wireless communications., and ticket vending equipment.

Perform preventive maintenance inspections, repairs, troubleshooting and servicing on passenger platform equipment, vehicle mounted equipment, and equipment installed in remote locations, as required by manufacturers' maintenance and service manuals, and TriMet Standards and Procedures.

Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.

## Prerequisites

High school diploma or equivalent.

Possess a valid and active driver's license for the past five (5) years. Ability to secure Oregon or Washington CDL Class "A" license with "P" endorsement and no Air Brake restriction.

A combination of at least two (2) years of recent verifiable training and in electro/mechanical or electronic/mechanical systems including troubleshooting and maintenance, which may include college, high school, or trade school mechanics courses and/or a regional occupational program.

Previous experience working with: ticket vending machines, Transit Tracker displays, Public address systems, Ethernet networking equipment, Fiber optic infrastructure, Copper cable infrastructure, Channel banks, back-up power supplies, CCTV cameras and equipment, Programmable logic controllers, GPS timing receivers, Voice or TTD telephones and Field communications equipment.

Or any equivalent combination of experience and training.

Trainees must acquire or possess the tools necessary to perform the duties of the position, including, measuring and hand tools, volt meters, and electronic troubleshooting tools

Upon verification of prior experience, applicant must pass a qualifying examination related to the selection criteria listed below.

### Knowledge, Skills & Abilities

Must have ability to:

- Effectively use and operate the tools, computerized diagnostic test equipment and field equipment required for the repair and maintenance of TriMet passenger platform electronic equipment and infrastructure.
- Perform skilled work in connection with the inspection, testing, troubleshooting, maintenance, operation, alteration and repair of the TriMet systems.
- Learn and effectively use personal computers and the Districts software programs for inventory and parts; completing work orders and reporting defects.
- Work in equipment that places technicians at various heights to maintain equipment.
- Communicate effectively both orally and in writing; understand and follow oral and written instructions; work independently under continual training and close supervision.
- Establish and maintain working relationships with those contacted in the course of work using principals of good customer service.
- Must be available to work five (5) consecutive days including Saturday and Sunday and/or holidays, as scheduled.
- Must be available to work any one of three shifts – day, evening, or late; as scheduled and report to either of the eastside or westside rail maintenance facilities
- Must maintain the physical condition necessary to perform the following on a frequent or continual basis:
  - Stand, transport oneself from station to station in a large maintenance facility, sit while reviewing or preparing work orders and other paperwork, bend, squat, stoop, turn, climb, kneel, twist, perform simple and power grasping, push, pull, perform fine hand and finger manipulations, safely lift and carry heavy objects weighing up to sixty five (65) lbs. or use appropriate lifting equipment and techniques for heavier items.

**Job Information**

<b>Title</b>	<b>Field Technician</b>
<b>Established Date</b>	2/13/2009 12:00:00 AM
<b>Revision Date</b>	
<b>Salary Grade:</b>	
<b>Reports To:</b>	Supervisor, Maintenance - (252)
<b>Division:</b>	Maintenance
<b>FLSA Classification:</b>	Non-Exempt

**JOB SUMMARY**

*This job description is not to be construed as an exhaustive list of responsibilities or requirements. Employees may be required to perform other related job responsibilities.*

Under minimum supervision, perform preventive maintenance inspections, repairs, troubleshooting and servicing on passenger platform equipment, vehicle mounted equipment, and equipment installed in remote locations, as required by manufacturers' maintenance and service manuals, and TriMet Standards and Procedures. This is highly skilled electronic maintenance work requiring a thorough knowledge of electronics theory and practices, computer hardware, software and networks, fiber-optics, wired and wireless communications, and ticket vending equipment.

*Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.*

**DISTINGUISHING CHARACTERISTICS**
**PRIMARY RESPONSIBILITIES**

<b>Responsibility</b>	<b>Essential Function*</b>
Inspect, troubleshoot, adjust, repair, and service passenger platform equipment including: ticket vending machines, Transit Tracker displays, public address systems, ethernet networking equipment, fiber optic and copper cable infrastructure, channel banks, back-up power supplies, CCTV cameras and equipment, programmable logic controllers, GPS timing receivers, voice and TTD telephones, and other field communications equipment.	
Per TriMet Standards and Procedures and APTA standards, perform maintenance tasks as specified and scheduled, including periodic preventive maintenance inspections.	
Analyze failures and repair mobile, portable, and base station trunked radio equipment.	
Analyze failures and repair systems and assemblies associated with critical, non-interruptible fiber-optic and radio communications networks carrying both voice and data.	
Locate and diagnose trouble in electrical and electronics systems using standard test equipment, blue prints, schematics and wire diagrams.	
Configure, maintain, and utilize electronic test equipment such as oscilloscopes, frequency counters, microprocessor based automated testers, voltmeters, video signal generators, data communications (protocol) analyzers, radio service monitors, fiber-optic and cable time domain reflectometers (TDRs), fiber-optic signal sources and power meters, and bit-error (BERT) test sets.	
Operate and maintain computer programs associated with diagnosis, testing and monitoring of fiber-optic networks carrying voice, data, and video.	
Analyze failures of CCTV, public address, Transit Tracker displays, data, telephone, video, ticket vending, and supervisory control and data acquisition (SCADA) equipment and networks, including T-1 and ethernet links, to identify potential systemic problems.	
Maintain a clean, efficient, and professional work area.	
Instruct Field Technician Apprentices in repair procedures, troubleshooting, safety precautions, and maintenance techniques, as required.	
Operate forklift and bucket truck in performance of maintenance duties.	

*\*An essential function is a primary responsibility that if removed would fundamentally change the primary purpose of the job.*

**MINIMUM QUALIFICATIONS**

The Minimum Qualifications listed below are representative of the knowledge, skill, and/or ability required and must be bona-fide requirements. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Education			
Education Level	Degree Discipline	Required / Preferred	
H.S. Diploma	A minimum of a high school diploma or equivalent is required.	Required	

Or any equivalent combination of training or experience.

Work Experience	
Total Years Credited Experience	

Specific Years of Experience	Specific Type of Experience	Required / Preferred	
3 Years	Three years experience <u>troubleshooting and maintenance of with electro/mechanical or electronic/mechanical systems networking equipment, fiber optic CCTV camera/equipment, remote control and/or computer interfaces including troubleshooting and maintenance</u> is required.	Required	

The amount of credit a candidate receives for prior years of experience is based on the relevancy of that experience to the required or preferred prerequisites of the job description. Experience is prorated based on hours worked. LRHR assign and validate the "credited experience".

Other Requirements	
Two (2) years of vocational or directly related training may be substituted for the required experience on a year-for-year basis.	

Drivers Licenses and Driving Record Requirement	
Required / Preferred	License Type
Required	Possession of, or the ability to acquire, a valid Oregon Drivers License, Class "A" (CDL) with air brake endorsement, or Washington equivalent (required).

Knowledge, Skills, and Abilities	
Type	KSA
	Demonstrated knowledge of digital and analog electrical/electronic circuit theory and practices.
	Demonstrated knowledge of fiber optic, telephone communications systems, and wired network installation, testing, and maintenance, including digital multiplexing equipment.
	Demonstrated knowledge of ethernet networking and how to interface with network equipment using computers.
	Demonstrated knowledge of CCTV surveillance systems, public address systems, alarm, remote control and information display systems.
	Demonstrated knowledge of radio, data and voice communications systems.
	Ability to read, analyze, and interpret electronic schematic wiring diagrams.
	Ability to develop and maintain equipment maintenance records.
	Ability to see and recognize component and writing standard color codes.
	Ability to perform duties under urgent circumstances at any hour in extreme weather conditions.
	Ability to understand and comply with the policies, procedures, and general safety rules of the District.
	Demonstrated desire and ability to assist in training Field Technician Trainees.

## Knowledge, Skills, and Abilities

<i>Type</i>	KSA
	Ability to pass required physical examination with drug screen, and meet the requirements of the appropriate physical activity description.

## WORKING CONDITIONS

### Primary Work Space

<i>Location</i>	<i>% of Time</i>
	100%

### Physical Surroundings

<i>Working Condition</i>	<i>Frequency</i>	<i>Identify specific working conditions</i>

*The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

### Hazardous Conditions

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### Travel Requirements

<i>Travel</i>	<i>Description of Travel</i>	<i>Degree of Travel</i>	<i>Percentage of Travel</i>

## ADA Statement

*As applied to the workplace, applicants and employees must be qualified to perform the essential functions of the job with or without reasonable accommodation. Essential functions may include required job functions performed infrequently as well as production standards related to the quality and quantity of work. If a person with a disability could meet job qualifications with a reasonable accommodation, TriMet will work with the employee to accommodate the need. If TriMet's accommodation is effective in allowing the employee to perform the essential functions of the job, it need not be the employee's preferred accommodation.*



# Light Rail Vehicle Electronics Technician Trainee

## **Job Description**

Complete Light Rail Vehicle Electronics Technician training program consisting of classroom instruction, self-study, and on-the-job training (OJT), under the direction and instruction of training supervisors, maintenance supervisors, Light Rail Vehicle Electronics Technicians, and other training personnel. . As Trainees become proficient at tasks, they may be assigned to work more independently.

## **Essential Functions**

1. Attend classroom training as scheduled, completing all written and oral exams.
2. Satisfactorily complete all program self-study courses assigned by training supervisors.
3. Under supervision, complete assigned units of on-the-job training (OJT) in repair of rail associated electrical and electronic light rail vehicle system components and equipment.
4. Complete certified training programs in the operation of all shop equipment.
5. Develop a working knowledge of all rail systems applicable to the specific to the particular discipline the trainee is enrolled.

## **Prerequisites**

High school diploma or equivalent.

AS Degree in Electronics Technology or other related degree, or equivalent U.S. military training may be considered.

Two years demonstrated experience as an electronics repair technician.

Or any equivalent combination of experience and training.

Possession of or the ability to obtain, a valid Oregon Class "B" Commercial Driver License (CDL) with an air brake endorsement or the State of Washington equivalent.

Upon verification of a prior experience, applicant must pass a qualifying written examination related to the Selection Criteria listed below.

## **Knowledge, Skills & Abilities**

1. Knowledge of: electrical and electronics theory, design concepts, equipment, hardware, troubleshooting and repair techniques related to electrical and electronic components, including applicable electrical and materials codes and standards.
2. Demonstrated ability to read and interpret electrical schematics, plans, drawings and specifications.

3. Ability to successfully complete all required training courses as demonstrated through aptitude testing and previous electrical and electronics experience.
4. Ability to accept instruction and direction in a one-on-one training situation.
5. Ability to adapt to various physical environments and varying shifts and work assignments, including lifting and moving heavy objects weighing up to 50 pounds, as well as exertion of directional force through tools manipulated by the body, hands, arms and/or legs.
6. Ability to use electronic/electrical test equipment.
7. Demonstrated ability to maintain a satisfactory level of dependability and reliability for technician work performance both individually and as a member of a team of technicians, and attendance.
8. Ability to understand and comply with District's safety rules, operating procedures, rules and regulations.
9. Successfully pass aptitude and placement testing.
10. Must pass required physical examination with drug screen, and meet the physical activity requirements of the job.

# Light Rail Vehicle Electronics Technician

## Job Description

Perform troubleshooting and repair of LRV electrical equipment, printed circuit boards, electronic components and microprocessor hardware, and overhaul/rebuild on light rail vehicles (LRVs), including LRV subsystems and components, for LRV types, including timed contractor DC propulsion technology and state of the art AC propulsion microprocessor driven technology.

## Essential Functions

1. Inspect, troubleshoot, adjust and repair LRV electrical equipment, printed circuit boards, electronic components and microprocessor hardware.
2. Inspect, troubleshoot, adjust, repair and overhaul/rebuild LRV electrical and electronic system components, from the propulsion and dynamic braking system, friction braking system, annunciation circuits, door systems, public address/readerboards and other light rail vehicle systems. Locate and diagnose trouble in electrical and electronic subsystem components using standard test equipment and laptop computers.
3. Follow written standard operating procedures (SOP) and maintenance instructions, blueprints, schematics, drawings, and written specifications.
4. Practice effective work techniques in troubleshooting, job lay-out, productivity and quality of work performed.
5. Instruct other employees and Light Rail Vehicle Electronics Technician Trainees in repair procedures and troubleshooting techniques, and safety precautions, as required.
6. Use the following test equipment: laptop computers (Windows and non-Windows applications, LRV systems diagnostic software, fault log data analytic software), diagnostic test equipment, data acquisition test equipment, oscilloscopes, simulator, megger, hi-pot tester.
7. Operate forklifts, overhead cranes, and other shop equipment as required.
8. Maintain maintenance logs and records as required by TriMet rules and procedures.
9. Perform related duties as required.

## Prerequisites

High school diploma or equivalent.

AS Degree in Electronics Technology or other related degree, or equivalent U.S. military training may be considered.

Three years' in electrified rail transit vehicle electronics maintenance or manufacturing, or completion of TriMet Light Rail Vehicle Electronic Technician training program.

Or any equivalent combination of experience and training.

Possession of or the ability to obtain, a valid Oregon Class "B" Commercial Driver License (CDL) with an air brake endorsement or the State of Washington equivalent.

Upon verification of a prior experience, applicant must pass a qualifying written examination related to the Selection Criteria listed below.

**Knowledge, Skills & Abilities**

1. Knowledge of: electrical and electronics theory, design concepts, equipment, hardware, troubleshooting and repair techniques related to electrified rail transit vehicle system components, including applicable electrical and materials codes and standards.
2. Demonstrated ability to read and interpret electrical and mechanical plans, drawings and specifications.
3. Ability to effectively communicate and document maintenance work and instructions, maintain test records, and assist in developing operating procedures.
4. Ability to safely work with live circuits up to 1,000 VDC.
5. Ability to gain specific knowledge relating to TriMet light rail transit vehicles.
6. Demonstrated ability to maintain a satisfactory level of dependability and reliability for technician work performance both individually and as a member of a team of technicians, and attendance.
7. Ability to understand and comply with District's safety rules, operating procedures, rules and regulations.
8. Ability to perform all essential functions, with or without reasonable accommodations.
9. Must pass required physical examination with drug screen, and meet the physical activity requirements of the job.

# Light Rail Vehicle Maintenance Technician Trainee

**Class Title**

Light Rail Vehicle Maintenance Technician

**Class Code**

364

**Salary**

\$0.00 Hourly

**Job Description**

Complete Light Rail Vehicle Maintenance Technician training program consisting of classroom instruction, self-study, and on-the-job training (OJT), under the direction and instruction of training supervisors, maintenance supervisors, Light Rail Vehicle Maintenance Technicians, and other training personnel. As Trainees become proficient at tasks, they may be assigned to work more independently.

Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.

**Essential Functions**

1. Attend classroom training as scheduled, completing all written and oral exams.
2. Satisfactorily complete all program self-study courses assigned by training supervisors.
3. Under supervision, complete assigned units of on-the-job training (OJT) in maintenance and repair and of light rail vehicles.
4. Complete certified training programs in the operation of all shop equipment.
5. Develop a working knowledge of all rail systems applicable to the specific to the particular discipline the trainee is enrolled.

**Prerequisites**

High school diploma or equivalent.

AS Degree in Aviation Maintenance, ASE - Automotive Service Technology, or other related degree, or equivalent U.S. military training may be considered.

Two years experience electromechanical maintenance and repair, or related field.

Or any equivalent combination of experience and training.

Possession of or the ability to obtain, a valid Oregon Class "A" Commercial Driver License (CDL) with an air brake endorsement or the State of Washington equivalent.

Upon verification of prior experience, applicant must pass a qualifying written examination related to the Selection Criteria listed below.

**Knowledge, Skills & Abilities**

1. Knowledge of: design concepts, equipment, hardware, repair and overhaul techniques related to electrical and mechanical components, including applicable electrical and mechanical materials codes and standards.
2. Ability to successfully complete all required training courses as demonstrated through aptitude testing and previous electrical and electronics experience.
3. Ability to accept instruction and direction in a one-on-one training situation.
4. Demonstrated ability to read and interpret electrical and mechanical plans, drawings and specifications.
5. Ability to gain specific knowledge relating to TriMet light rail transit vehicles.
6. Demonstrated ability to maintain a satisfactory level of dependability and reliability for technician work performance both individually and as a member of a team of technicians, and attendance.
7. Ability to understand and comply with District's safety rules, operating procedures, rules and regulations.
8. Ability to pass the District's certification program for Light Rail Vehicle yard operations.
9. Must pass required physical examination with drug screen, and meet the physical activity requirements of the job.
10. Ability to perform all essential functions, with or without reasonable accommodations.

**Grade**

Union

**Report To**

Spvr. Or Asst. Spvr., Rail Equipment Maint.

**Division**

Maintenance Operations

# Light Rail Vehicle Maintenance Technician

## **Job Description**

Perform preventative maintenance inspections, repairs, and troubleshooting on light rail vehicles (LRVs), including LRV subsystems and components, for LRV types, including timed contractor DC propulsion technology and state of the art AC propulsion microprocessor driven technology.

Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.

## **Essential Functions**

1. Inspect, troubleshoot, adjust, and repair subsystems, such as propulsion, dynamic brake, friction brake, air conditioning, annunciation circuits, couplers, door systems and public address/readerboards. Locate and diagnose trouble in electrical, hydraulic, and mechanical systems using standard test equipment and laptop computers.
2. Follow written standard operating procedures (SOP) and maintenance instructions, blueprints, schematics, drawings, and written specifications.
3. Practice effective work techniques in troubleshooting, job lay-out, productivity and quality of work performed.
4. Instruct other employees and LRV Maintenance Technician Trainees in repair procedures, troubleshooting, safety precautions and preventative maintenance inspection techniques, as required.
5. Use the following test equipment: laptop computers (Windows and non-Windows applications, LRV systems diagnostic software, fault log data analytic software), diagnostic test equipment, data acquisition test equipment, oscilloscopes, simulator, megger, in-floor hydraulic jacks, and hi-pot tester.
6. Operate hi-rail vehicles, forklift, overhead cranes, and perform tasks involved in re-rail procedures for LRVs.
7. Maintain maintenance logs and records as required by TriMet rules and procedures.

## **Prerequisites**

High school diploma or equivalent.

AS Degree in Electronics Technology, Aviation Maintenance, ASE - Automotive Service Technology, or other related degree, or equivalent U.S. military training may be considered.

Three years experience in electrified rail transit vehicle maintenance or manufacturing, or completion of TriMet Light Rail Vehicle Technician training program.

Or any equivalent combination of experience and training.

Possession of or the ability to obtain, a valid Oregon Class "A" Commercial Driver License (CDL) with an air brake endorsement or the State of Washington equivalent.

Upon verification of prior experience, applicant must pass a qualifying written examination related to the Selection Criteria listed below.

**Knowledge, Skills & Abilities**

1. Knowledge of: electrical propulsion theory, design concepts, equipment, hardware, troubleshooting and repair techniques related to electrified rail transit vehicles, including applicable electrical and materials codes and standards.
2. Knowledge of testing and instrumentation equipment involved in operation and maintenance of electrified rail transit vehicles.
3. Demonstrated knowledge of heavy vehicle shop safety procedures in an electrified environment.
4. Demonstrated ability to read and interpret electrical and mechanical plans, drawings and specifications.
5. Ability to effectively communicate and document maintenance work and instructions, maintain test records, and assist in developing operating procedures.
6. Ability to safely work with live circuits up to 1,000 V.
7. Ability to gain specific knowledge relating to TriMet light rail transit vehicles.
8. Ability to operate the District's radio and telephone communication system in accordance with established regulations and procedures.
9. Demonstrated ability to maintain a satisfactory level of dependability and reliability for technician work performance both individually and as a member of a team of technicians, and attendance.
10. Ability to understand and comply with District's safety rules, operating procedures, rules and regulations.
11. Ability to pass the District's certification program for Light Rail Vehicle yard operations.
12. Must pass required physical examination with drug screen, and meet the physical activity requirements of the job.
13. Ability to perform all essential functions, with or without reasonable accommodations.



**Grade**

Union

**Report To**

Spvr. Or Asst. Spvr., Rail Equipment Maint.

**Division**

Maintenance Operations

# Light Rail Vehicle Overhaul Technician Trainee

## **Job Description**

Complete Light Rail Vehicle Overhaul Technician training program consisting of classroom instruction, self-study, and on-the-job training (OJT), under the direction and instruction of training supervisors, maintenance supervisors, Light Rail Vehicle Overhaul Technicians, and other training personnel. As Trainees become proficient at tasks, they may be assigned to work more independently.

Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.

## **Essential Functions**

1. Attend classroom training as scheduled, completing all written and oral exams.
2. Satisfactorily complete all program self-study courses assigned by training supervisors.
3. Under supervision, complete assigned units of on-the-job training (OJT) in repair and overhaul of light rail vehicle components.
4. Complete certified training programs in the operation of all shop equipment.
5. Develop a working knowledge of all rail systems applicable to the specific to the particular discipline the trainee is enrolled.

## **Prerequisites**

High school diploma or equivalent

AS Degree in Aviation Maintenance, ASE - Automotive Service Technology, Machine Tool Operation, or other related degree, or equivalent U.S. military training may be considered.

Two years experience electromechanical maintenance and repair, or related field.

Or any equivalent combination of experience and training.

Possession of or the ability to obtain, a valid Oregon Class "B" Commercial Driver License (CDL) with an air brake endorsement or the State of Washington equivalent.

Upon verification of prior experience, applicant must pass a qualifying written examination related to the Selection Criteria listed below.

## **Knowledge, Skills & Abilities**

1. Knowledge of: design concepts, equipment, hardware, repair and overhaul techniques related to electrical and mechanical components, including applicable electrical and mechanical materials codes and standards.

2. Demonstrated ability to read and interpret electrical and mechanical schematics, plans, drawings and specifications.
3. Ability to successfully complete all required training courses as demonstrated through aptitude testing and previous electrical and electronics experience.
4. Ability to accept instruction and direction in a one-on-one training situation
4. Demonstrated ability to read and interpret electrical and mechanical plans, drawings and specifications.
5. Ability to effectively communicate and document maintenance work and instructions, maintain test records, and assist in developing operating procedures.
7. Ability to gain specific knowledge relating to TriMet light rail transit vehicles.
8. Demonstrated ability to maintain a satisfactory level of dependability and reliability for technician work performance both individually and as a member of a team of technicians, and attendance.
9. Ability to understand and comply with District's safety rules, operating procedures, rules and regulations.
10. Must pass required physical examination with drug screen, and meet the physical activity requirements of the job.
11. Ability to perform all essential functions, with or without reasonable accommodations.

**Grade**

Union

**Report To**

Spvr. Or Asst. Spvr., Rail Equipment Maint.

**Division**

Maintenance Operations

# Light Rail Vehicle Overhaul Technician

## **Job Description**

Perform repairs and overhaul/rebuild on light rail vehicle (LRVs) subsystems and components, for LRV types, including timed contractor DC propulsion technology and state of the art AC propulsion microprocessor driven technology.

Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.

## **Essential Functions**

1. Repair and overhaul/rebuild LRV subsystem components, such as LRV trucks, gearboxes, hydraulic pumps, brake calipers, HVAC units, couplers, door system operators, electrical components and public address/readerboards. Locate and repair failures in electrical, hydraulic, and mechanical system components using standard test equipment and laptop computers.
2. Follow written standard operating procedures (SOP) and maintenance instructions, blueprints, schematics, drawings, and written specifications.
3. Practice effective work techniques in job lay-out, productivity and quality of work performed.
4. Instruct other employees and Light Rail Vehicle Overhaul Technician Trainees in repair and overhaul procedures, safety precautions and component overhaul techniques, as required.
5. Use the following equipment: laptop computers (Windows and non-Windows applications), oscilloscopes, simulators, megger, hi-pot tester, HVAC testing equipment, in-floor hydraulic jacks, and hydraulic press for wheel-axle and tire assembly and disassembly.
6. Operate forklifts, overhead cranes, in-floor jacks, powered hand tools and other equipment as required.
7. Maintain maintenance logs and records as required by TriMet rules and procedures.

## **Prerequisites**

High school diploma or equivalent

AS Degree in Aviation Maintenance, ASE - Automotive Service Technology, Machine Tool Operation, or other related degree, or equivalent U.S. military training may be considered.

Three years experience in electrified rail transit vehicle maintenance, component repair and overhaul or manufacturing, or completion of TriMet Light Rail Vehicle Overhaul Technician training program.

Or any equivalent combination of experience and training.

Possession of or the ability to obtain, a valid Oregon Class "B" Commercial Driver License (CDL) with an air brake endorsement or the State of Washington equivalent.

Upon verification of prior experience, applicant must pass a qualifying written examination related to the Selection Criteria listed below.

**Knowledge, Skills & Abilities**

1. Knowledge of: design concepts, equipment, hardware, repair and overhaul techniques related to electrified rail transit vehicle components, including applicable electrical and materials codes and standards.
2. Knowledge of testing and instrumentation equipment involved in the maintenance and overhaul of electrified rail transit vehicles.
3. Demonstrated knowledge of heavy vehicle shop safety procedures in an electrified environment.
3. Demonstrated knowledge of hydraulic press for wheel-axle and tire assembly and disassembly and the use of overhead cranes.
4. Demonstrated ability to read and interpret electrical and mechanical plans, drawings and specifications.
5. Ability to effectively communicate and document maintenance work and instructions, maintain test records, and assist in developing operating procedures.
7. Ability to gain specific knowledge relating to TriMet light rail transit vehicles.
8. Demonstrated ability to maintain a satisfactory level of dependability and reliability for technician work performance both individually and as a member of a team of technicians, and attendance.
9. Ability to understand and comply with District's safety rules, operating procedures, rules and regulations.
10. Must pass required physical examination with drug screen, and meet the physical activity requirements of the job.
11. Ability to perform all essential functions, with or without reasonable accommodations.

**Grade**

Union

**Report To**

Spvr. Or Asst. Spvr., Rail Equipment Maint.

**Division**

Maintenance Operations



# Maintenance of Way Laborer

## Job Description

### Job Information

Title	<b>Maintenance of Way Laborer</b>
Established Date	11/17/2003 12:00:00 AM
Revision Date	
Salary Grade:	
Reports To:	Assistant Supervisor, Rail MOW
Division:	COO
FLSA Classification:	Non-Exempt

### JOB SUMMARY

*This job description is not to be construed as an exhaustive list of responsibilities or requirements. Employees may be required to perform other related job responsibilities.*

Perform a variety of maintenance-of-way duties relating to materials handling for wayside maintenance. Perform unskilled and semi-skilled work requiring experience in maintenance tasks and methods applicable to rail operations.

*Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.*

### DISTINGUISHING CHARACTERISTICS

### PRIMARY RESPONSIBILITIES

Responsibility	Essential Function*
Load and unload materials obtain necessary material and equipment clean up and remove debris.	
Remove and install ties, rails, turnouts, track fastenings and switches clean and maintain track drains, crossings, fences lubricate track, switches remove and tighten bolt and perform other related maintenance-of-way duties.	
Assist in maintenance and repair tasks using equipment commonly associated with wayside maintenance.	
Assist in track surfacing alignment and gauging.	
Assist other maintenance-of-way maintainers as assigned in the maintenance, handling and repair of shop, stations, power, signal and related facilities and equipment. Assist in rerailing operations, snow and ice removal and other emergency situations.	
Operate various high-rail equipment and other service vehicles and equipment associated with the performance of maintenance-of-way activities.	

*\*An essential function is a primary responsibility that if removed would fundamentally change the primary purpose of the job.*

### MINIMUM QUALIFICATIONS

*The Minimum Qualifications listed below are representative of the knowledge, skill, and/or ability required and must be bona-fide requirements. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

Education			
Education Level	Degree Discipline	Required / Preferred	
H.S. Diploma	A minimum of a high school diploma or equivalent is required.	Required	

*Or any equivalent combination of training or experience.*

## Work Experience

*Total Years Credited Experience*

<i>Specific Years of Experience</i>	<i>Specific Type of Experience</i>	<i>Required / Preferred</i>
2 years	Work experience in heavy maintenance work using a range of tools and fulfilling work orders.	

*The amount of credit a candidate receives for prior years of experience is based on the relevancy of that experience to the required or preferred prerequisites of the job description. Experience is prorated based on hours worked. LRHR assign and validate the "credited experience".*

## Other Requirements

## Licenses and Certifications

<i>Enter Licenses/Certifications</i>	<i>Lic/Certification Details</i>	<i>Required / Preferred</i>	<i>Time Frame to Complete</i>

## Drivers Licenses and Driving Record Requirement

<i>Required / Preferred</i>	<i>License Type</i>
Required	Possession of or the ability to acquire a valid Oregon Commercial Driver's License (CDL) with air brake endorsement or Washington State equivalent.

## Knowledge, Skills, and Abilities

<i>Type</i>	<i>KSA</i>
	Demonstrated ability to learn and assist other rail maintenance personnel in the maintenance of traction electrification, rail and signal systems. Ability to understand and comply with the District's Safety Rules, Operations Procedures, Rules and Regulations.
	Demonstrated ability to operate the District's radio and telephone communication system in compliance with regulations and procedures.
	Ability to pass the District's certification program for Track Equipment Operator.
	Demonstrated ability to maintain a satisfactory performance record related to reliability, dependability and attendance. Continued employment is contingent upon successful completion of certification and recertification training as appropriate. Demonstrated knowledge of railroad and/or rail transit maintenance-of-way activities.
	Demonstrated ability to perform the strenuous work requirements of the job.
	Ability to read, write and understand the English language.
	Ability to establish and maintain effective working relationships with employees, supervisors, and the general public.

## WORKING CONDITIONS

### Primary Work Space

<i>Location</i>	<i>% of Time</i>
	100%

### Physical Surroundings

<i>Working Condition</i>	<i>Frequency</i>	<i>Identify specific working conditions</i>

*The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

### Hazardous Conditions

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### Travel Requirements

<i>Travel</i>	<i>Description of Travel</i>	<i>Degree of Travel</i>	<i>Percentage of Travel</i>

### ADA Statement

*As applied to the workplace, applicants and employees must be qualified to perform the essential functions of the job with or without reasonable accommodation. Essential functions may include required job functions performed infrequently as well as production standards related to the quality and quantity of work. If a person with a disability could meet job qualifications with a reasonable accommodation, TriMet will work with the employee to accommodate the need. If TriMet's accommodation is effective in allowing the employee to perform the essential functions of the job, it need not be the employee's preferred accommodation.*



# Overhead Power Maintainer Trainee

## Class Title

Overhead Power Maintainer Trainee

## Job Description

This is an entry level Maintenance of Way (MOW) Maintenance position leading to promotion as a Power Maintainer. Trainees are responsible for sufficiently completing all assigned formal training and On-the-Job Training (OJT) assignments. Trainees report to TriMet MOW Training staff during formal training classes. During OJT assignments, trainees work under MOW supervision of a Shop Shift Supervisor and/or Power Maintainer. As Trainees become proficient at tasks, they may be assigned to work more independently.

## Prerequisites

High school diploma or equivalent.

Possess a valid and active driver's license for the past five (5) years. Ability to secure an Oregon or Washington CDL Class "A" license with "P" endorsement and no Air Brake restriction.

A combination of at least two (2) years of recent verifiable training and experience in mechanical and electronics, which may include college, high school, or trade school mechanics courses and/or a regional occupational program. Documentation will be required to verify training and/or experience.

Upon verification of prior experience, applicant must pass a qualifying written examination and/or hands on test related to the selection criteria listed below.

## Knowledge, Skills & Abilities

Must have ability to:

1. Effectively use and operate the tools, computerized diagnostic test equipment and field equipment required for the repair and maintenance of TriMet Light Rail OCS Equipment.
2. Perform skilled work in connection with the inspection, testing, troubleshooting, maintenance, operation, alteration and repair of the TriMet Light Rail OCS System.
3. Learn and effectively use personal computers and the Districts software programs for inventory and parts; completing work orders and reporting defects.

4. Communicate effectively both orally and in writing. Understand and follow oral and written instructions.
5. Establish and maintain effective working relationships with those contacted in the course of work using principles of good customer service.
6. Must be available to work any day, Sunday through Saturday and Holidays as scheduled.
7. Must be available to work any one of three shifts – day, evening, or late; as scheduled and report to any MOW maintenance facility.
8. Must maintain the physical condition necessary to perform the following on a frequent or continual basis:
  - Stand, transport oneself from equipment location to equipment location in the Rail Right-of-Way and safely access the Right-of-Way.
  - Ability to sit while reviewing or preparing work orders and other paperwork, bend, squat, stoop, turn, climb, kneel, twist, perform simple and power grasping, push, pull, perform fine hand and finger manipulations, and safely lift and carry heavy objects weighing up to sixty five (65) lbs. or use appropriate lifting equipment and techniques for heavier items.
9. Ability to work in equipment that places Maintainer at various heights to maintain equipment.
  - Must be able to successfully complete a three year OCS Maintainer Training Program.



**Journeyman MOW Overhead Traction  
Electrification Power Maintainer**  
Job Description

**Job Information**

Title	<b>Journeyman MOW Overhead Traction Electrification Power Maintainer</b>
Established Date	1/1/1900 12:00:00 AM
Version Date:	
Salary Grade:	
Reports To:	Assistant Supervisor, Rail MOW
Division:	Operations
FLSA Classification:	Non-Exempt

**JOB SUMMARY**

*This job description is not to be construed as an exhaustive list of responsibilities or requirements. Employees may be required to perform other related job responsibilities.*

The **Journeyman Overhead Traction Electrification Power Maintainer** performs skilled work in connection with the inspection, testing, troubleshooting, preventative maintenance, operation, alteration and repair of the TriMet Electrification Overhead Wire System. Effectively use and operate the tools, computerized diagnostic test equipment and field equipment required for the repair and maintenance of Overhead Wire System Equipment. All work performed will be reported electronically by the technician including all aspects of work performed, travel time and any special conditions encountered and repaired.

*Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.*

**DISTINGUISHING CHARACTERISTICS**

**PRIMARY RESPONSIBILITIES**

Responsibility	Essential Function*
Inspect, troubleshoot, adjust, repair, maintain, and replace electrification overhead wire system.	Yes
Maintain maintenance logs and record work performed as required by TriMet rules and procedures.	Yes
Conduct or assist in traction electrification system tests and repairs as necessary.	Yes
Operate various maintenance vehicle, equipment and tools as necessary, including hi-rail vehicles.	Yes
Follow written Standard Operating Procedures and maintenance instructions, including blueprints, schematics, drawings and written specifications.	Yes
Support rail system, track, signals, and substation maintenance in accordance with established procedures and/or as directed by qualified personnel.	Yes
Assist in re-railing operations and other emergency situations.	Yes
Assist in spare parts and special tools and maintenance equipment inventory, set up and control for the traction electrification system.	Yes
Perform on-the-job training for Overhead Traction Electrification Apprentices.	Yes

*\*An essential function is a primary responsibility that if removed would fundamentally change the primary purpose of the job.*

**MINIMUM QUALIFICATIONS**

*The Minimum Qualifications listed below are representative of the knowledge, skill, and/or ability required and must be bona-fide requirements. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

Education			
Education Level	Degree Discipline	Required / Preferred	
H.S. Diploma	A minimum of a high school diploma or equivalent is required.	Required	

Or any equivalent combination of training or experience.

### Work Experience

Total Years Credited Experience

Specific Years of Experience	Specific Type of Experience	Required / Preferred	
3 Years	Three years experience in traction electrification construction/maintenance is required.	Required	Or
	<del>Successful completion of Overhead Power Maintainer trainee program</del>	<del>Required</del>	<del>Or</del>
5 Years	Five years experience in electrical line construction/maintenance is required.	Required	And
	<del>Applicant must pass a qualifying examination related to selection criteria</del>	<del>Required</del>	

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The amount of credit a candidate receives for prior years of experience is based on the relevancy of that experience to the required or preferred prerequisites of the job description. Experience is prorated based on hours worked. LRHR assign and validate the "credited experience".

### Other Requirements

### Licenses and Certifications

Enter Licenses/Certifications	Lic/Certification Details	Required / Preferred	Time Frame to Complete
	<del>Applicant must pass with a score of at least 70% on a qualifying written examination related to the selection criteria listed in KSAs.</del>	Required	

### Drivers Licenses and Driving Record Requirement

Required / Preferred	License Type
Required	Possession of, or the ability to acquire, a valid Oregon Driver's License, Class "A" (CDL) with air brake endorsement or State of Washington equivalent.

### Knowledge, Skills, and Abilities

Type	KSA
	Knowledge of materials, equipment, and hardware related to traction electrification systems, National Electric Safety Code and other applicable codes and standards
	Knowledge of electrical maintenance and repair practices and procedures.
	Demonstrated knowledge of and ability to interpret electrical distribution plans and related drawings and specifications.
	Knowledge of and ability to use test equipment to diagnose and correct problems for traction electrification systems.
	Ability to communicate and document effectively, maintain test records and assist in developing operating procedures.
	Ability to work with circuits rated up to 1000V.
	Ability to operate the District's radio and telephone communication system in accordance with established regulations and procedures.
	Demonstrated knowledge of OSHA Lockout/Tagout requirements.
	Demonstrated ability to maintain a satisfactory level of dependability and reliability for technician work performance, both individually and as a member of a team of technicians, and attendance.
	Ability to understand and comply with District's safety rules, operating procedures, rules and regulations.

Knowledge, Skills, and Abilities

Type	KSA
Physical examination with drug screen required.	

**WORKING CONDITIONS**

Primary Work Space

Location	% of Time
	100%

Physical Surroundings

Working Condition	Frequency	Identify specific working conditions

*The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

Hazardous Conditions

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Travel Requirements

Travel	Description of Travel	Degree of Travel	Percentage of Travel

**ADA Statement**

*As applied to the workplace, applicants and employees must be qualified to perform the essential functions of the job with or without reasonable accommodation. Essential functions may include required job functions performed infrequently as well as production standards related to the quality and quantity of work. If a person with a disability could meet job qualifications with a reasonable accommodation, TriMet will work with the employee to accommodate the need. If TriMet's accommodation is effective in allowing the employee to perform the essential functions of the job, it need not be the employee's preferred accommodation.*

# Signals Maintainer Trainee

## Class Title

Signals Maintainer Trainee

## Job Description

This is an entry level Maintenance of Way (MOW) Maintenance position leading to promotion as a Signals Maintainer. Trainees are responsible for sufficiently completing all assigned formal training and On-the-Job Training (OJT) assignments. Trainees report to TriMet MOW Training staff during formal training classes. During OJT assignments, trainees work under close MOW supervision of a Shop Shift Supervisor and/or Signals Maintainer. As Trainees become proficient at tasks, they may be assigned to work more independently.

## Prerequisites

High school diploma or equivalent.

Possess a valid and active driver's license for the past five (5) years. Ability to secure an Oregon or Washington CDL Class "A" license with "P" endorsement and no Air Brake restriction.

A combination of at least two (2) years of recent verifiable training and experience in mechanical and electronics, which may include college, high school, or trade school mechanics courses and/or a regional occupational program. Documentation will be required to verify training and/or experience.

Upon verification of prior experience, applicant must pass a qualifying written examination and/or hands on test related to the selection criteria listed below.

## Knowledge, Skills & Abilities

Must have ability to:

1. Effectively use and operate the tools, computerized diagnostic test equipment and field equipment required for the repair and maintenance of TriMet Light Rail signals Equipment.
2. Perform skilled work in connection with the inspection, testing, troubleshooting, maintenance, operation, alteration and repair of the TriMet Light Rail signals System.
3. Learn and effectively use personal computers and the Districts software programs for inventory and parts; completing work orders and reporting defects.

4. Communicate effectively both orally and in writing. Understand and follow oral and written instructions.
5. Establish and maintain effective working relationships with those contacted in the course of work using principles of good customer service.
6. Must be available to work any day, Sunday through Saturday and Holidays as scheduled.
7. Must be available to work any one of three shifts – day, evening, or late; as scheduled and report to any MOW maintenance facility.
8. Must maintain the physical condition necessary to perform the following on a frequent or continual basis:
  - Stand, transport oneself from equipment location to equipment location in the Rail Right-of-Way and safely access the Right-of-Way.
  - Ability to sit while reviewing or preparing work orders and other paperwork, bend, squat, stoop, turn, climb, kneel, twist, perform simple and power grasping, push, pull, perform fine hand and finger manipulations, and safely lift and carry heavy objects weighing up to sixty five (65) lbs. or use appropriate lifting equipment and techniques for heavier items.
9. Ability to work in equipment that places Maintainer at various heights to maintain equipment.
  - Must be able to successfully complete a three year Signals Maintainer Training Program.



## MOW Signals Maintainer Job Description

### Job Information

Title	<b>MOW Signals Maintainer</b>
Established Date	12/31/2014 12:00:00 AM
Version Date:	
Salary Grade:	
Reports To:	Assistant Supervisor, Rail MOW
Division:	Operations
FLSA Classification:	Non-Exempt

### JOB SUMMARY

*This job description is not to be construed as an exhaustive list of responsibilities or requirements. Employees may be required to perform other related job responsibilities.*

The ~~Journeyman~~ Signals Maintainer performs skilled work in connection with the inspection, testing, troubleshooting, maintenance, operation, alteration and repair of the TriMet Signal System for LRV Operation. Effectively use and operate the tools, computerized diagnostic test equipment and field equipment required for the repair and maintenance of the Signal System Equipment. All work performed will be reported electronically by the technician including all aspects of work performed, travel time and any special conditions encountered and repaired.

*Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.*

### DISTINGUISHING CHARACTERISTICS

### PRIMARY RESPONSIBILITIES

Responsibility	Essential Function*
Inspect, adjust and maintain transit signal equipment, grade crossing warning devices and preempt devices, switch machines, switch circuit controllers, switch locks, signals and relay cases and racks in accordance with TriMet Rules and Procedures, Oregon Public Utilities Commission Standards and Title 49 of the Code of Federal Regulations - Rules, Standards and instructions for Railroad Signal Systems.	Yes
Maintain maintenance records and logs required by TriMet Rules and Procedures, OPUC Standards, and Title 49 of the Code of Federal Regulations.	Yes
Bench tests and adjusts vital relays and other signals system apparatus.	Yes
Function as a composite maintainer, cleaning, painting and maintaining signal/electrical equipment, spaces and shop areas.	Yes
Operate various maintenance equipment and tools as necessary.	Yes
Assist in rerailling operations and other emergency situations.	Yes
Support traction power and track maintenance in accordance with established procedures and/or as directed by qualified personnel.	Yes
Assist in the coordination of signals contractors activities when and where necessary.	Yes
Assist in spare parts setup and control.	Yes
Assist in the development and update of a maintenance report system.	Yes
Perform on the job training for signal apprentices.	Yes

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*\*An essential function is a primary responsibility that if removed would fundamentally change the primary purpose of the job.*

### MINIMUM QUALIFICATIONS

*The Minimum Qualifications listed below are representative of the knowledge, skill, and/or ability required and must be bona-fide requirements. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*



Education			
Education Level	Degree Discipline	Required / Preferred	
H.S. Diploma	A minimum of a high school diploma or equivalent is required.	Required	

Or any equivalent combination of training or experience.

Work Experience			
Total Years Credited Experience			

Specific Years of Experience	Specific Type of Experience	Required / Preferred	
5-2Years	Five-Two years experience in light rail transit signal system inspection, construction or maintenance	Required	And
	Successful completion of a qualified rail signals school	Required	And/Or
	Any equivalent combination of experience and education	Required	Or
	Successful completion of the Signals Maintainer trainee program		
	Applicant must pass a qualifying written examination related to the Selection Criteria listed below.	Required	

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The amount of credit a candidate receives for prior years of experience is based on the relevancy of that experience to the required or preferred prerequisites of the job description. Experience is prorated based on hours worked. LRHR assign and validate the "credited experience".

Other Requirements			

Drivers Licenses and Driving Record Requirement			
Required / Preferred	License Type		
Required	Possession of a valid Oregon Class "A" Commercial Driver License (CDL) with air brake endorsement or State of Washington equivalent.		

Knowledge, Skills, and Abilities			
Type	KSA		
	Knowledge of railway signal principles and practices (Association of American Railroads).		
	Knowledge of Rules, Standards and Instruction for Railway Signal Systems (Federal Railroad Administration).		
	Knowledge of Railway signal circuit plans including AAR symbols, nomenclature, conventions and interpretation.		
	Knowledge of the use of electrical test equipment.		
	Knowledge of the restrictions of alterations to signal systems.		
	Ability to understand and comply with general safety rules, operations, rules and regulations of the District.		
	Ability to learn to operate the District's radio and telephone communication systems in compliance with rules, regulations and procedures.		
	Ability to diagnose and correct problems in signal interlockings.		
	Demonstrated ability to maintain satisfactory performance level of dependability and reliability.		
	Demonstrated ability to communicate effectively in written and oral form.		
	Demonstrated ability to document information.		
	Demonstrated ability to assist in the establishment of written procedures.		
	Continued employment is contingent upon successful completion of certification and recertification training as appropriate.		

Knowledge, Skills, and Abilities

Type	KSA
	Ability to pass the District's certification program for track equipment operation.
	Ability to pass pre-employment drug screening.

**WORKING CONDITIONS**

Primary Work Space

Location	% of Time
	100%

Physical Surroundings

Working Condition	Frequency	Identify specific working conditions

*The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

Hazardous Conditions

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Travel Requirements

Travel	Description of Travel	Degree of Travel	Percentage of Travel

**ADA Statement**

*As applied to the workplace, applicants and employees must be qualified to perform the essential functions of the job with or without reasonable accommodation. Essential functions may include required job functions performed infrequently as well as production standards related to the quality and quantity of work. If a person with a disability could meet job qualifications with a reasonable accommodation, TriMet will work with the employee to accommodate the need. If TriMet's accommodation is effective in allowing the employee to perform the essential functions of the job, it need not be the employee's preferred accommodation.*

# Track Maintainer Trainee

## Job Description

This is an entry level Maintenance of Way (MOW) Maintenance position leading to the graduation from the TriMet MOW Track Maintenance Training Program as a Journeyman Signals Mechanic. Trainees are responsible for sufficiently completing all assigned formal training and On-the-Job Training (OJT) assignments. Trainees report to TriMet MOW Training staff during formal training classes. During OJT assignments, trainees work under close MOW supervision of a Shop Shift Supervisor and/or Journeyman Track Maintainer. As Trainees become proficient at tasks, they may be assigned to work more independently.

## Prerequisites

High school diploma or equivalent.

Possess a valid and active driver's license for the past five (5) years. Ability to secure an Oregon or Washington CDL Class "A" license with "P" endorsement and no Air Brake restriction.

A combination of at least two (2) years of recent verifiable training and experience in mechanical and electronics, which may include college, high school, or trade school mechanics courses and/or a regional occupational program. Documentation will be required to verify training and/or experience.

Upon verification of prior experience, applicant must pass a qualifying written examination and/or hands on test related to the selection criteria listed below.

## Knowledge, Skills & Abilities

Must have ability to:

1. Effectively use and operate the tools, computerized diagnostic test equipment and field equipment required for the repair and maintenance of TriMet Light Rail Track Equipment.
2. Perform skilled work in connection with the inspection, testing, troubleshooting, maintenance, operation, alteration and repair of the TriMet Light Rail Track Infrastructure.
3. Learn and effectively use personal computers and the Districts software programs for inventory and parts; completing work orders and reporting defects.

4. Communicate effectively both orally and in writing. Understand and follow oral and written instructions.
5. Establish and maintain effective working relationships with those contacted in the course of work using principles of good customer service.
6. Must be available to work any day, Sunday through Saturday and Holidays as scheduled.
7. Must be available to work any one of three shifts – day, evening, or late; as scheduled and report to any MOW maintenance facility.
8. Must maintain the physical condition necessary to perform the following on a frequent or continual basis:
  - Stand, transport oneself from equipment location to equipment location in the Rail Right-of-Way and safely access the Right-of-Way.
  - Ability to sit while reviewing or preparing work orders and other paperwork, bend, squat, stoop, turn, climb, kneel, twist, perform simple and power grasping, push, pull, perform fine hand and finger manipulations, and safely lift and carry heavy objects weighing up to sixty five (65) lbs. or use appropriate lifting equipment and techniques for heavier items.
9. Ability to work in equipment that places Maintainer at various heights to maintain equipment.
  - Must be able to successfully complete a two year Track Maintainer Training Program.

Grade

N/A

Division

Maintenance



## Track ~~Maintenance~~ Technician ~~Maintainer~~

Job Description

### Job Information

Title	Track <del>Maintenance Technician</del> <del>Maintainer</del>
Established Date	5/5/1999 12:00:00 AM
Version Date:	
Salary Grade:	
Reports To:	Supervisor, Rail MOW - (379)
Division:	Maintenance
FLSA Classification:	Non-Exempt

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### JOB SUMMARY

*This job description is not to be construed as an exhaustive list of responsibilities or requirements. Employees may be required to perform other related job responsibilities.*

Under minimal supervision, perform a variety of skilled and unskilled maintenance duties relating to track maintenance, inspection, repair and replacement. Perform responsible work requiring skill, judgment and experience in maintenance tasks and use of tools.

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*Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.*

### DISTINGUISHING CHARACTERISTICS

### PRIMARY RESPONSIBILITIES

Responsibility	Essential Function*
Inspect track and special work, check and adjust track switches assist other maintenance personnel as required. Inspect and maintain track crossings.	
Load and unload materials obtain necessary tools and equipment clean up and remove debris.	
Remove and install ties, rails, turnouts, and track fastenings.	
Replace and tighten bolts clean and lubricate track, fastenings and switches clean and maintain track drains.	
Assist in track surfacing, alignment and gauging operations.	
Assist in rereiling operations and other emergency situations.	
Assist in the development and update of a maintenance reporting system. Maintain maintenance records and logs required by TriMet rules and procedures.	
Assist in spare parts inventory and control.	
Operate various high-rail and rail vehicles used in track maintenance.	

*\*An essential function is a primary responsibility that if removed would fundamentally change the primary purpose of the job.*

### MINIMUM QUALIFICATIONS

*The Minimum Qualifications listed below are representative of the knowledge, skill, and/or ability required and must be bona-fide requirements. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

#### Education

Education Level	Degree Discipline	Required / Preferred
H.S. Diploma	A minimum of a high school diploma or equivalent is required.	Required

*Or any equivalent combination of training or experience.*

Work Experience	
Total Years Credited Experience	

Specific Years of Experience	Specific Type of Experience	Required / Preferred	
3 Years	Experience as a skilled track maintainer on a light rail vehicle system.	Required	Or
2 Years	Two years of experience as a TriMet Rail Maintenance of Way Laborer is required.	Required	And
	Successful completion of the Track Maintainer Trainee program.		

The amount of credit a candidate receives for prior years of experience is based on the relevancy of that experience to the required or preferred prerequisites of the job description. Experience is prorated based on hours worked. LRHR assign and validate the "credited experience".

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Other Requirements	

Drivers Licenses and Driving Record Requirement	
Required / Preferred	License Type
Required	Possession of, or the ability to obtain, a valid Commercial Driver's License (CDL) with air brake endorsement (required).

Knowledge, Skills, and Abilities	
Type	KSA
	Ability to interpret and use plans, drawings, blueprints and schematics.
	Knowledge of rail and associated hardware, manuals, procedures, parts catalogs and other pertinent documentation, familiar with the special requirement of a signalized, electrified rail system.
	Knowledge of electrified railway track circuits.
	Ability to understand and comply with the District's Safety Rules, Operations Procedures, Rules and Regulations.
	Demonstrated mechanical skill and ability to properly use hand and power tools.
	Ability to operate the District's radio and telephone communication system in compliance with regulations and procedures.
	Ability to pass the District's certification program for Track Equipment Operator.
	Demonstrated ability to maintain a satisfactory performance record related to reliability, dependability and attendance.
	Ability to work alone or as a member of a larger maintenance group as required.
	Ability to pass physical examination required for this job, including drug screen.
	Ability to achieve a passing score on required aptitude and basic skills examinations.

## WORKING CONDITIONS

Primary Work Space	
Location	% of Time
	100%

### Physical Surroundings

Working Condition	Frequency	Identify specific working conditions

*The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

### Hazardous Conditions

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### Travel Requirements

Travel	Description of Travel	Degree of Travel	Percentage of Travel

### ADA Statement

*As applied to the workplace, applicants and employees must be qualified to perform the essential functions of the job with or without reasonable accommodation. Essential functions may include required job functions performed infrequently as well as production standards related to the quality and quantity of work. If a person with a disability could meet job qualifications with a reasonable accommodation, TriMet will work with the employee to accommodate the need. If TriMet's accommodation is effective in allowing the employee to perform the essential functions of the job, it need not be the employee's preferred accommodation.*



~~Journeyman~~ Traction Power  
Substation Maintainer  
Job Description

Job Information

Title	<del>Journeyman</del> Traction Power Substation Maintainer
Established Date	7/28/2016 12:00:00 AM
Version Date:	
Salary Grade:	
Reports To:	Supervisor, Rail MOW - (379)
Division:	Operations
FLSA Classification:	Non-Exempt

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**JOB SUMMARY**

*This job description is not to be construed as an exhaustive list of responsibilities or requirements. Employees may be required to perform other related job responsibilities.*

The Traction Power Substation Maintainer performs skilled work in connection with the inspection, testing, troubleshooting, maintenance, operation, alteration and repair of the TriMet Traction Power substations. Effectively use and operate the tools, computerized diagnostic equipment and field equipment required for the repair and maintenance of Traction Power Substation Equipment. All work performed will be reported electronically by the technician including all aspects of the work performed, travel time and any special conditions encountered and repaired.

*Ensure a commitment to safety through consistent and professional behaviors in performance of job requirements that demonstrate safety is a fundamental value that guides all aspects of our work. Perform related duties as required.*

**DISTINGUISHING CHARACTERISTICS**

**PRIMARY RESPONSIBILITIES**

Responsibility	Essential Function*
Inspect, trouble shoot, adjust, repair and maintain traction power substation equipment.	Yes
Maintain maintenance log electronically and record work performed as required by TriMet rules and procedures.	Yes
Conduct or assist in special traction electrification system testing as necessary.	Yes
Operate various maintenance equipment and tools as necessary.	Yes
Support rail system track, signal and overhead wire maintenance in accordance with established procedures and/or as directed by qualified personnel.	Yes
Assist in rereiling operations and other emergency situations.	Yes
Assist in spare parts inventory set-up and control.	Yes
Assist in the development and update of a maintenance reporting system.	Yes
Perform on the job training for Substation Maintainer Apprentices	Yes

*\*An essential function is a primary responsibility that if removed would fundamentally change the primary purpose of the job.*

**MINIMUM QUALIFICATIONS**

*The Minimum Qualifications listed below are representative of the knowledge, skill, and/or ability required and must be bona-fide requirements. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

Education			
Education Level	Degree Discipline	Required / Preferred	
H.S. Diploma	A minimum of a high school diploma or equivalent is required.	Required	



Or any equivalent combination of training or experience.

### Work Experience

Total Years Credited Experience

Specific Years of Experience	Specific Type of Experience	Required / Preferred	
5-2_Years	Five-Two years experience working as an Electrician with experience working in a high voltage (up to 15000-volt) environment.	Required	And
2 Years	Two years of training in an accredited trade school electrical program or completion of TriMet's Traction Power Substation Maintainer apprentice program. <u>Any equivalent combination of experience and training.</u>	Required	And/or
	<u>Applicant must pass a qualifying examination related to the selection criteria.</u>	Required	

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The amount of credit a candidate receives for prior years of experience is based on the relevancy of that experience to the required or preferred prerequisites of the job description. Experience is prorated based on hours worked. LRHR assign and validate the "credited experience".

### Other Requirements

### Drivers Licenses and Driving Record Requirement

Required / Preferred	License Type
Required	Possession of a valid Oregon Class "A" Commercial Driver License (CDL) with air brake endorsement or State of Washington equivalent.

### Knowledge, Skills, and Abilities

Type	KSA
	Ability to operate District revenue and service vehicles.
	Knowledge of electrical maintenance and repair practices and procedures.
	Knowledge of and ability to interpret electrical distribution plans and related drawings.
	Knowledge of and ability to use test equipment to diagnose and correct problems in traction power substations.
	Ability to communicate effectively both orally and in written form.
	Ability to communicate and document effectively, maintain test records, and to assist in developing operating procedures.
	Ability to work with circuits rated up to 15,000 volts.
	Demonstrated ability to operate the District's radio and telephone communication system in accordance with established regulations and procedures.
	Ability to establish and maintain effective working relationships with employees, management, and the general public.
	Demonstrated ability to maintain a satisfactory level of dependability and reliability for technical work performance, both individually and as a member of a team of technicians.
	Physical ability to perform duties and responsibilities.
	Ability to work weekend, graveyard, swing, or day shifts and attend work on a regular basis.
	Ability to successfully complete certification and recertification training as appropriate.
	Must pass required physical examination with drug screen, and meet the physical activity requirements of the job, including the ability to safely lift up to 75 pounds.
	Ability to perform all essential functions, with or without reasonable accommodation.

## WORKING CONDITIONS

### Primary Work Space

Location	% of Time
	100%

### Physical Surroundings

Working Condition	Frequency	Identify specific working conditions

*The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

### Hazardous Conditions

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### Travel Requirements

Travel	Description of Travel	Degree of Travel	Percentage of Travel

### ADA Statement

*As applied to the workplace, applicants and employees must be qualified to perform the essential functions of the job with or without reasonable accommodation. Essential functions may include required job functions performed infrequently as well as production standards related to the quality and quantity of work. If a person with a disability could meet job qualifications with a reasonable accommodation, TriMet will work with the employee to accommodate the need. If TriMet's accommodation is effective in allowing the employee to perform the essential functions of the job, it need not be the employee's preferred accommodation.*

# Traction Substation Trainee

## Class Title

Traction Substation Trainee

## Job Description

This is an entry level Maintenance of Way (MOW) Maintenance position leading to promotion as a Traction Substation Technician. Trainees are responsible for sufficiently completing all assigned formal training and On-the-Job Training (OJT) assignments. Trainees report to TriMet MOW Training staff during formal training classes. During OJT assignments, trainees work under close MOW supervision of a Shop Shift Supervisor and/or Traction Substation Technician. As Trainees become proficient at tasks, they may be assigned to work more independently.

## Prerequisites

High school diploma or equivalent.

Possess a valid and active driver's license for the past five (5) years. Ability to secure an Oregon or Washington CDL Class "A" license with "P" endorsement and no Air Brake restriction.

A combination of at least two (2) years of recent verifiable training and experience in mechanical and electronics, which may include college, high school, or trade school mechanics courses and/or a regional occupational program. Documentation will be required to verify training and/or experience.

Upon verification of prior experience, applicant must pass a qualifying written examination and/or hands on test related to the selection criteria listed below.

## Knowledge, Skills & Abilities

Must have ability to:

1. Effectively use and operate the tools, computerized diagnostic test equipment and field equipment required for the repair and maintenance of TriMet Light Rail Substation Equipment.
2. Perform skilled work in connection with the inspection, testing, troubleshooting, maintenance, operation, alteration and repair of the TriMet Light Rail Substation Equipment.
3. Learn and effectively use personal computers and the Districts software programs for inventory and parts; completing work orders and reporting defects.

4. Communicate effectively both orally and in writing. Understand and follow oral and written instructions.
5. Establish and maintain effective working relationships with those contacted in the course of work using principles of good customer service.
6. Must be available to work any day, Sunday through Saturday and Holidays as scheduled.
7. Must be available to work any one of three shifts – day, evening, or late; as scheduled and report to any MOW maintenance facility.
8. Must maintain the physical condition necessary to perform the following on a frequent or continual basis:
  - Stand, transport oneself from equipment location to equipment location in the Rail Right-of-Way and safely access the Right-of-Way.
  - Ability to sit while reviewing or preparing work orders and other paperwork, bend, squat, stoop, turn, climb, kneel, twist, perform simple and power grasping, push, pull, perform fine hand and finger manipulations, and safely lift and carry heavy objects weighing up to sixty five (65) lbs. or use appropriate lifting equipment and techniques for heavier items.
9. Ability to work in equipment that places technician at various heights to maintain equipment.
  - Must be able to successfully complete a three year Traction Substation Technician Training Program.