

8742
RAILROAD TECHNICIAN I

Nature of Work

Under direct supervision, performs entry level work on railroad beds, bridges, tracks and equipment or as a crew member in the operation and/or repair of locomotives and freight/passenger trains of state-owned and operated railroads, acquiring the skills and knowledge to become a full-performance technician. These positions work during inclement weather and under hazardous conditions and may require strenuous physical labor. These positions may require the handling of hazardous chemicals. Performs related work as required.

Examples of Work

Clears brush, trees and other hazardous debris from track and right-of-way.
Maintains track drainage ditches, lateral pipes and cross pipes.
Operates hi-rail pick-up trucks.
Uses hand tools such as tongs, spike pullers, spike hammers and rail gauges in repairing railroad beds and tracks.
Uses power tools such as rail saw, rail drill and pneumatic wrenches, hammers and tampers in repairing railroad beds and tracks.
Adjusts and inspects couplings and air hoses of railroad cars for proper functioning.
Replaces tie plates to ensure safe rail/tie attachment.
Adjusts rails.
Measures track gauge.
Sets and releases handbrakes on railroad cars during switching operations.
Throws track switches to re-route railroad cars.
Sorts track materials for loading and unloading.
Uses standard shop tools in the repair of all types of equipment and vehicles.
Assists in the repair of bridges, track structures, railway fences, crossing gates, cattle guards and sign posts.
Assists in the repairs to railroad beds and tracks by replacing rails and ties, gauging tracks, computing proper tie spacing and checking degree of elevation and curvature of tracks.
Assists track inspectors in removing slow orders and identifying defects, deteriorations and misalignments in tracks and bridges.
Assists with locomotive and train air-brake tests.
Assists in the inspection, repair and maintenance of all systems on locomotives, hi-rail equipment and highway vehicles.

Knowledge, Skills and Abilities

Ability to read operation manuals and specifications in the assigned area.
Knowledge of procedures, techniques, occupational hazards, safety standards, safety procedures and equipment used in the assigned area.
Knowledge of the Federal Railroad Administration (FRA) rules and regulations for safety and operations.
Knowledge of railway shop tools.
Knowledge of and ability to use basic mathematics.
Ability to learn to use track maintenance hand tools and track maintenance power tools.
Ability to learn to use standard shop tools and equipment.
Ability to learn to use small equipment such as motorcar and forklift.

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RAILROAD TECHNICIAN I (cont'd)

Knowledge, Skills and Abilities (cont'd)

Ability to learn to replace rails and ties, gauge tracks, compute proper tie spacing and check degree of curvature and elevation of track.

Ability to learn to adjust couplings and air hoses of railroad cars.

Ability to set and release handbrakes, couple and uncouple train cars and air brake hoses on railroad cars.

Ability to perform brake testing on trains.

Ability to operate track switches safely.

Ability to understand and follow written and oral instructions.

Ability to communicate using proper radio protocol.

Minimum Qualifications

Training: High school diploma or equivalent.

Special Requirement: A valid driver's license may be required.

Established: 09/27/1984

Revised: 05/17/1988; 01/23/1993; 10/16/1993; 01/22/2002; 07/21/2017; 08/25/2017;
11/10/2018

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