

Occupational Analysis Chart

RAILWAY CAR TECHNICIAN

Occupation Description: Railway Car Technician means a person who inspects, repairs, replaces and reconditions mechanical or structural components and systems of freight cars and passenger coaches. These individuals must have a mechanical aptitude and hands-on skills and be able to use many different types of power, pneumatic, and hydraulic tools or equipment. These individuals work for railway companies or rail car repair facilities.

PERFORM OCCUPATIONAL SKILLS A	Use Personal Protective Equipment (PPE) A1	Maintain safe work environment, including operation of energizing equipment A2	Use, select and maintain tools A3	Use rigging and lifting equipment A4	Bend/ fit air, water and pneumatic pipes A5	Perform thread cutting A6	
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	Use welding and cutting equipment A7	Paint rail equipment and components A8	Use fasteners, adhesives, sealants, lubricants, gaskets A9	Use computers A10	Communicate with others A11	Coach and mentor apprentices A12	
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	Use technical documents A13	Interpret and comply with standards and regulatory documents A14	Plan daily tasks per work assignment A15	Transport and set up cranes and hoisting equipment A16	Use load charts and engineered lift-plans to organize lift and advise crew A17	Operate crane and boom trucks per applicable regulations A18	
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	Design/ lay out railcar parts and components for fabrication A19	Execute fabrication plan per relevant specifications A20	Verify fit and finish of fabricated railcar part/ component A21				
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	DIAGNOSE/ SERVICE UNDERFRAME SYSTEMS B	Diagnose and service freight-car wheel/axle assemblies B1	Diagnose and service passenger-car wheel/ axle assemblies B2	Inspect couplers, knuckles, yokes, draft-gears and associated components B3	Assemble/ disassemble knuckles, yokes, draft-gears and associated components B4	Recondition couplers, knuckles, yokes and other equipment B5	Select/ interpret Procedural Sheets per job requirements B6
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Inspect/ service centre-of-car cushion units B7	Inspect/ service end-of-car cushion units B8	Diagnose/ service chassis and chassis components B9	Diagnose/ service centre sill B10	Diagnose/ service underframe trucks B11
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DIAGNOSE/ SERVICE BRAKE SYSTEMS
C

Diagnose air-brake system and components C1	Service air-brake system and components C2	Service air-brake system consumables C3	Diagnose hand-brake system and components C4	Service hand-brake system and components C5
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DIAGNOSE/ SERVICE RAILCAR BODIES AND UNITS
D

Diagnose/ service gondola-car components D1	Diagnose/ service bulkhead/ flatcar components D2	Diagnose/ service intermodal/ other freight-car components D3	Diagnose/ service hopper-car components D4	Diagnose/ service boxcar components D5	Diagnose/ service autorack-car components D6
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Diagnose/ service tanker-car components D7	Diagnose/ service caboose components D8	Diagnose/ service baggage-car bodies D9	Diagnose/ service domed (park/ skyline)-car bodies D10	Diagnose/ service coach-car components D11	Diagnose/ service diner-car components D12
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Diagnose/ service sleeper-car components D13
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DIAGNOSE/ SERVICE CLIMATE CONTROL AND PLUMBING SYSTEMS
E

Assist in removal, reinstallation and replacement of air conditioning components E1	Assist in removal, reinstallation and replacement of heating-system components E2	Diagnose/ service caboose-heater E3	Diagnose/ service pumps, hoses and related components E4	Diagnose/ service tanks and related components E5
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YARD SYSTEMS F	Set up and use rerailers (replacers) F1	Operate jacks to rerail cars F2	Operate crane to rerail cars F3	Operate railcar-mover per switching assignment and Yard Operating Rules F4	Operate switches and derails F5	Apply Transport Canada specifications re: CCI responsibilities F6
	Monitor / report violations per regulatory requirements F7	Participate in Joint Inspection Procedure to identify defects and remedies F8				