

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT SKILLS MAP - TECHNICIAN (PERMANENT WAY AND CIVIL STRUCTURE)				
Sector	Public Transport			
Track	Rail Engineering			
Sub-Track	Permanent Way and Civil Structure			
Occupation	Rail Technician			
Job Role	Technician (Permanent Way and Civil Structure)			
Job Role Description	<p>The Technician (Permanent Way and Civil Structure) works in a team to perform preventive and corrective maintenance of civil structures, train tracks and/or third rail. He/She operates engineering trains to support rail track maintenance and performs track-walk inspections. He also assists in the inspection and general maintenance of train stations and depot buildings, and the supervision of contractors and external stakeholders in ensuring adherence to work and safety standards.</p> <p>He is required to work on day and/or permanent night shifts and carries out his duties at various rail premises such as on train tracks, in train tunnels and at various train stations. As such, he is physically fit and is able to perform his duties within confined work spaces under tight maintenance schedules. He is detail-oriented in identifying faults in the permanent way or civil structures and is a good team player in supporting the team in meeting their maintenance objectives.</p>			
Critical Work Functions and Key Tasks	Critical Work Functions	Maintain permanent way and civil structures	Key Tasks	
			Perform preventive maintenance of permanent way and civil structures	
			Perform corrective maintenance of permanent way and civil structures	
			Assist in conducting fault analysis and testing of permanent way and civil structures	
	Operate engineering trains	Support maintenance activities and operational requirements	Conduct patrolling and visual inspection on train tracks, railway reserves and buildings	
			Drive engineering trains and operate train-mounted maintenance equipment	
			Supervise the work of contractors and stakeholders external to the permanent way and civil structures team to ensure safety requirements and operating standards are met	
			Ensure proper housekeeping of spare parts, equipment and tools	
Comply with Workplace Safety and Health (WSH) policies, procedures and regulations when carrying out work	Comply with the Rapid Transit System (RTS) Codes of Practice	Document inspection and maintenance activities		
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Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)	
	Civil Structure Maintenance	Level 1, Level 2	Teamwork	Basic
	Condition-based Assets Monitoring Management	Level 1	Communication	Basic
	Data and Statistical Analytics	Level 1	Interpersonal Skills	Basic
	Engineering Train and Rolling Stock Operation	Level 2	Problem Solving	Basic
	Equipment Maintenance and Housekeeping	Level 1	Lifelong Learning	Basic
	Internet of Things Application	Level 2		
	Rail Regulatory Compliance	Level 1		
	Rail Track Inspection	Level 1, Level 2		
	Rail Track Maintenance	Level 1, Level 2		
	Report Writing	Level 1		
	Robotics and Automation Application	Level 2		
	Third Rail Maintenance	Level 1, Level 2		
	Track Access Management	Level 1		
	Vendor Management	Level 1		
	Work at Heights	Level 1		
	Workplace Facilities Safety Management	Level 2		
	Workplace Safety and Health for Confined Spaces	Level 1		
	Workplace Safety and Health for Electrical Safety	Level 1		
	Workplace Safety and Health for Fire Prevention and Fire Fighting	Level 1		
Workplace Safety and Health for Incident and Accident Investigation	Level 2			

Programme Listing	For a list of Training Programmes available for the Public Transport sector, please visit: www.skillsfuture.sg/skills-framework/public-transport
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The information contained in this document serves as a guide.