

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT SKILLS MAP - SENIOR TECHNICIAN (PERMANENT WAY AND CIVIL STRUCTURE)				
Sector	Public Transport			
Track	Rail Engineering			
Sub-Track	Permanent Way and Civil Structure			
Occupation	Rail Technician			
Job Role	Senior Technician (Permanent Way and Civil Structure)			
Job Role Description	<p>The Senior Technician (Permanent Way and Civil Structure) performs preventive and corrective maintenance of civil structures, train tracks and/or third rail. He/She operates various types of engineering work trains and train-mounted equipment to aid in the maintenance of train tracks, train tunnels and various rail structures. He conducts track-walk inspections and performs troubleshooting, fault analysis and repair of electrical and mechanical track equipment and systems. He also conducts visual inspections and assists in the general maintenance of train stations and depot buildings.</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. He is technically inclined and guides his team to perform maintenance work assigned.</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	
			Perform fault analysis and testing of permanent way and civil structures under supervision	
	Operate engineering trains	Conduct patrols and visual inspections of train tracks, railway reserves and buildings	Drive engineering trains and operate train-mounted maintenance equipment	
		Manage movements of engineering trains during maintenance		
	Support maintenance activities and operational requirements	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	
		Document inspection and maintenance activities	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		
	Manage people and team performance	Assist in allocating manpower for work activities	Contribute to workflow improvement, planning and scheduling activities	
		Perform on-the-job coaching		
	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 2	Communication	Basic
Data and Statistical Analytics		Level 2	Interpersonal Skills	Basic
Engineering Train and Rolling Stock Operation		Level 3	Problem Solving	Basic
Equipment Maintenance and Housekeeping		Level 1	Sense Making	Basic
Internet of Things Application		Level 2		
Learning and Development		Level 2		
Maintenance Scheduling		Level 3		
Rail Regulatory Compliance		Level 2		
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 Culture Development	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		

The information contained in this document serves as a guide.