

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT				
SKILLS MAP - CHIEF ENGINEER/SENIOR ENGINEERING MANAGER (PERMANENT WAY AND CIVIL STRUCTURE)				
Sector	Public Transport			
Track	Rail Engineering			
Sub-Track	Permanent Way and Civil Structure			
Occupation	Rail Engineer			
Job Role	Chief Engineer/Senior Engineering Manager (Permanent Way and Civil Structure)			
Job Role Description	<p>The Chief Engineer/Senior Engineering Manager (Permanent Way and Civil Structure) leads and facilitates the implementation of permanent way and civil structures maintenance regime within the organisation. He/She works closely with both internal and external stakeholders in implementing new initiatives and adopting technological developments in tracks, railway reserves and buildings. He demonstrates technical expertise in providing advice to cross-disciplinary engineering studies, reviews enhancement initiatives, as well as the establishment of competency standards and engineering standards to ensure staff are equipped with relevant skills.</p> <p>He processes in-depth knowledge and understanding of the operational activities, industry developments and regulatory requirements of permanent way and civil structures to establish improvement to the maintenance regime. He also maintains a forward-thinking mindset to contribute strategically towards achieving the department goals.</p>			
Critical Work Functions and Key Tasks	Critical Work Functions	Key Tasks		
	Lead maintenance activities and operational requirements	Facilitate the implementation of departmental and/or organisational maintenance regimes and best practices		
		Develop failure management and technical recovery procedures to expedite permanent way and civil structures fault recovery process		
		Approve appointment of vendors based on allocated financial limits		
		Operationalise new measures to mitigate workplace safety risks		
		Operationalise new measures in ensuring workplace adherence to the Rapid Transit System (RTS) Codes of Practice		
	Drive continuous improvement activities to enhance service reliability	Review effectiveness of enhanced maintenance regimes to improve the reliability and efficiency of permanent way and civil structures		
		Lead cross-disciplinary engineering studies to ensure alignment with business objectives		
		Lead collaboration with internal and external stakeholders in the adoption of new technologies to enhance maintenance processes		
	Manage people and organisational function	Implement manpower planning strategy		
Establish competency standards and engineering standards for staff development and up-skilling				
Manage annual budget required by the department				
Manage department's performance in achieving Key Performance Indicators (KPIs)				
Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)	
	Asset Management	Level 6	Resource Management	Advanced
	Budgeting	Level 4	Decision Making	Advanced
	Business Continuity Management	Level 5	Interpersonal Skills	Advanced
	Change Management	Level 5	Leadership	Advanced
	Condition-based Assets Monitoring Management	Level 5	Problem Solving	Advanced
	Continuous Improvement Management	Level 5		
	Data and Statistical Analytics	Level 5		
	Engineering Maintenance Management	Level 5		
	Innovation Management	Level 5		
	Internet of Things Application	Level 4		
	Maintenance Scheduling	Level 5		
	Manpower Planning and Deployment	Level 4		
	Organisational Planning and Target Setting	Level 4		
	People Development	Level 5		
	Project Management	Level 5		
	Rail Regulatory Compliance	Level 5		
	Robotics and Automation Application	Level 4		
	Staff Performance Management	Level 4		

	Stakeholder Management	Level 4	
	Strategy Planning	Level 5	
	Systems Engineering Thinking	Level 5	
	Technology Application	Level 3	
	Vendor Management	Level 4	
	Workplace Facilities Safety Management	Level 4	
	Workplace Safety and Health Culture Development	Level 5	
	Workplace Safety and Health for Incident and Accident Investigation	Level 5	
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.