

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT SKILLS MAP - ENGINEERING HEAD (PERMANENT WAY AND CIVIL STRUCTURE)				
Sector	Public Transport			
Track	Rail Engineering			
Sub-Track	Permanent Way and Civil Structure			
Occupation	Rail Engineer			
Job Role	Engineering Head (Permanent Way and Civil Structure)			
Job Role Description	<p>The Engineering Head (Permanent Way and Civil Structure) is a technical subject matter expert on train tracks, railway reserves and buildings within the organisation. He/She represents the organisation when interfacing with internal and/or external stakeholders to implement permanent ways and civil structures-related maintenance and enhancement strategies. His duties also include translating and aligning established industry standards into department Key Performance Indicators (KPIs).</p> <p>He possesses a strong understanding of leading engineering practices, operational best practices, industry developments and regulatory requirements, and translates these into organisation practices and performance requirements. He has strong leadership skills, is able to cultivate a culture of continuous improvement and demonstrates excellent management skills to achieve the department's operational and functional goals.</p>			
Critical Work Functions and Key Tasks	Critical Work Functions	Lead maintenance activities and operational requirements	Key Tasks	
			Drive departmental and/or organisational maintenance regimes and enhanced engineering standards	
			Drive strategies for failure management to expedite permanent way and civil structures fault recovery procedures	
			Approve appointment of vendors based on allocated financial limits	
			Drive a culture of workplace safety	
	Cultivate awareness of the Rapid Transit System (RTS) Codes of Practice			
	Drive continuous improvement activities to enhance service reliability	Build a culture of continuous improvement focused on service reliability		
		Drive cross-disciplinary engineering studies to enhance maintenance and engineering standards		
		Drive collaboration with internal and external stakeholders in the adoption of new technologies to enhance maintenance processes		
	Manage people and organisational function	Formulate manpower planning strategy		
		Formulate strategies to equip staff with skills required by industry and/or engineering standards		
		Establish budget for the department		
Translate and align established standards to department Key Performance Indicators (KPIs)				
Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)	
	Asset Management	Level 6	Leadership	Advanced
	Budgeting	Level 5	Resource Management	Advanced
	Business Continuity Management	Level 6	Communication	Advanced
	Change Management	Level 6	Interpersonal Skills	Advanced
	Condition-based Assets Monitoring Management	Level 5	Problem Solving	Advanced
	Continuous Improvement Management	Level 6		
	Data and Statistical Analytics	Level 6		
	Engineering Maintenance Management	Level 6		
	Innovation Management	Level 6		
	Internet of Things Application	Level 5		
	Maintenance Scheduling	Level 5		
	Manpower Planning and Deployment	Level 5		
	Organisational Planning and Target Setting	Level 5		
	People Development	Level 6		
	Project Management	Level 6		
	Rail Regulatory Compliance	Level 6		
	Robotics and Automation Application	Level 5		
	Staff Performance Management	Level 5		
	Stakeholder Management	Level 5		

	Strategy Planning	Level 6	
	Systems Engineering Thinking	Level 6	
	Technology Application	Level 4	
	Vendor Management	Level 5	
	Workplace Facilities Safety Management	Level 5	
	Workplace Safety and Health Culture Development	Level 6	
	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.