

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT SKILLS MAP - CHIEF ENGINEER/SENIOR ENGINEERING MANAGER (POWER)				
Sector	Public Transport			
Track	Rail Engineering			
Sub-Track	Power			
Occupation	Rail Engineer			
Job Role	Chief Engineer/Senior Engineering Manager (Power)			
Job Role Description	<p>The Chief Engineer/Senior Engineering Manager (Power) leads and facilitates the implementation of rail power system maintenance regime within the organisation. He/She works closely with internal and external stakeholders in implementing rail enhancement initiatives, and demonstrates his technical expertise in providing advice to cross-disciplinary engineering studies and the review of enhancement initiatives. He also establishes competency standards and engineering standards to ensure staff are equipped with the relevant skills.</p> <p>He processes an in-depth understanding of the industry and regulatory developments and translates these to operation enhancement and knowledge transfer to the organisation. He maintains a forward-thinking mindset to contribute strategically towards achieving the department goals.</p>			
Critical Work Functions and Key Tasks	Critical Work Functions	Maintain power systems	Key Tasks	
			Isolate low voltage (LV), high voltage (HV), direct current (DC) power supply equipment prior to the execution of maintenance activities	
			Restore LV, HV, DC power supply equipment upon completion of maintenance activities	
	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 power systems fault recovery process	
			Approve appointment of vendors based on allocated financial limits	
			Operationalise new measures to mitigate workplace safety risks	
	Drive continuous improvement activities to enhance service reliability		Operationalise new measures in ensuring adherence to the Rapid Transit System (RTS) Codes of Practice	
			Review effectiveness of enhanced maintenance regimes to improve the reliability and efficiency of power systems	
			Lead cross-disciplinary engineering studies to ensure alignment with business objectives	
	Manage people and organisational function		Lead collaboration with internal and external stakeholders in the adoption of new technologies to enhance maintenance processes	
			Implement manpower planning strategy	
			Establish competency standards and engineering standards for staff development and up-skilling determine relevant skills required by staff	
			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		
	High Voltage Power Systems Maintenance	Level 4		
	Innovation Management	Level 5		
	Low Voltage Power Systems Maintenance	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		

	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.