

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT SKILLS MAP - PRINCIPAL ENGINEER/ENGINEERING MANAGER (ROLLING STOCK)				
Sector	Public Transport			
Track	Rail Engineering			
Sub-Track	Rolling Stock			
Occupation	Rail Engineer			
Job Role	Principal Engineer/Engineering Manager (Rolling Stock)			
Job Role Description	<p>The Principal Engineer/Engineering Manager (Rolling Stock) leads cross-functional teams in maintenance work involving passenger trains. He/She also applies technical expertise to improve maintenance regime, provide advice on engineering studies and new engineering initiatives, as well as the engagement and management of external contractors.</p> <p>He is required to carry out his duties at various rail premises such as workshops, depots and plants. He possesses extensive knowledge of rolling stock and other rail systems, and has excellent problem solving and analytical skills. He also applies managerial skills to fulfil the responsibilities of operational activities and facilitates the implementation of organisational maintenance regimes and continuous improvement initiatives.</p>			
Critical Work Functions and Key Tasks	Critical Work Functions	Maintain rolling stock	Key Tasks	
			Lead the execution of cross-functional rolling stock preventive maintenance work	
			Lead the execution of cross-functional rolling stock corrective maintenance work	
	Support maintenance activities and operational requirements		Lead technical recovery, complex fault analysis, and testing of rolling stock	
			Recommend vendors based on proposal evaluation and cost estimation	
			Manage multiple contractors and stakeholders external to the rolling stock team to ensure safety requirements, operating standards and quality standards are met	
			Ensure workplace adherence with Workplace Safety and Health (WSH) policies, procedures and regulations when carrying out work	
	Drive continuous improvement activities to enhance service reliability		Ensure workplace adherence with the Rapid Transit System (RTS) Codes of Practice	
			Formulate improvement plans for maintenance processes	
			Implement improved maintenance regimes to enhance the reliability and efficiency of rolling stock	
	Manage people and team performance		Evaluate the feasibility of engineering studies to improve the reliability and efficiency of rolling stock	
			Evaluate and approve maintenance schedule deviations to re-allocate manpower	
			Implement training plans for staff to meet industry requirements and/or engineering standards	
			Manage annual budget required by the branch	
Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)	
	Asset Management	Level 5	Leadership	Intermediate
	Budgeting	Level 4	Communication	Advanced
	Business Continuity Management	Level 5	Decision Making	Advanced
	Change Management	Level 5	Resource Management	Intermediate
	Condition-Based Assets Monitoring Management	Level 4	Problem Solving	Advanced
	Continuous Improvement Management	Level 5		
	Data and Statistical Analytics	Level 5		
	Engineering Maintenance Management	Level 4		
	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	
	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 4	
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.