

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT				
SKILLS MAP - CHIEF ENGINEER/SENIOR ENGINEERING MANAGER (SIGNAL AND COMMUNICATIONS)				
<b>Sector</b>	Public Transport			
<b>Track</b>	Rail Engineering			
<b>Sub-Track</b>	Signal and Communications			
<b>Occupation</b>	Rail Engineer			
<b>Job Role</b>	Chief Engineer/Senior Engineering Manager (Signal and Communications)			
<b>Job Role Description</b>	<p>The Chief Engineer/Senior Engineering Manager (Signal and Communications) leads and facilitates the implementation of signal, communication and control systems maintenance regime in the organisation. He/She works closely with internal and external stakeholders in implementing new initiatives to enhance rail reliability and maintainability. He demonstrates his technical expertise in providing advice to cross-disciplinary engineering studies, review enhancement initiatives and establishes competency and engineering standards to ensure staff are equipped with relevant skills.</p> <p>He has a strong understanding of the rail operational activities, industry developments and regulatory requirements, and maintains a forward-looking mindset to contribute strategically towards achieving the department's operational goals.</p>			
<b>Critical Work Functions and Key Tasks</b>	<b>Critical Work Functions</b>	Lead maintenance activities and operational requirements	<b>Key Tasks</b>	
			Facilitate the implementation of departmental and/or organisational maintenance regimes and best practices	
			Develop failure management and technical recovery procedures to expedite signal, communication and control 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 workplace adherence to the Rapid Transit System (RTS) Codes of Practice		
		Review effectiveness of enhanced maintenance regimes to improve the reliability and efficiency of signal, communication and control 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		
		Manage annual budget required by the department		
		Manage department's performance in achieving Key Performance Indicators (KPIs)		
<b>Skills &amp; Competencies</b>	<b>Technical Skills &amp; Competencies</b>		<b>Generic Skills &amp; Competencies (Top 5)</b>	
	Asset Management	Level 6	Communication	Advanced
	Budgeting	Level 4	Leadership	Advanced
	Business Continuity Management	Level 5	Decision Making	Advanced
	Change Management	Level 5	Interpersonal Skills	Advanced
	Condition-based Assets Monitoring Management	Level 5	Resource Management	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	
<b>Programme Listing</b>	For a list of Training Programmes available for the Public Transport sector, please visit: <a href="http://www.skillsfuture.sg/skills-framework/public-transport">www.skillsfuture.sg/skills-framework/public-transport</a>		

The information contained in this document serves as a guide.