

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT SKILLS MAP - ENGINEERING HEAD (SIGNAL AND COMMUNICATIONS)				
Sector	Public Transport			
Track	Rail Engineering			
Sub-Track	Signal and Communications			
Occupation	Rail Engineer			
Job Role	Engineering Head (Signal and Communications)			
Job Role Description	<p>The Engineering Head (Signal and Communications) is a subject matter expert of signal, communication and control systems. He/She drives the organisation's signal, communication and control systems maintenance regime and engineering standards, as well as translating and aligning established industry standards and regulatory requirements into department Key Performance Indicators (KPIs). He maintains a close link with internal and external stakeholders to implement enhancement strategies to improve rail reliability and maintainability.</p> <p>He possesses strong leadership skills, is able to cultivate a culture of continuous improvement through an in-depth appreciation of leading engineering best-practices and industry developments. He also demonstrates excellent management skills to achieve the department's operational and functional objectives.</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 signal, communication and control systems fault recovery procedures	
			Approve appointment of vendors based on allocated financial limits	
			Drive a culture of workplace safety	
	Drive continuous improvement activities to enhance service reliability	Cultivate awareness of the Rapid Transit System (RTS) Codes of Practice		
		Build a culture of continuous improvement focused on service reliability		
		Drive cross-disciplinary engineering studies to enhance maintenance and engineering standards		
	Manage people and organisational function	Drive collaboration with internal and external stakeholders in the adoption of new technologies to enhance maintenance processes		
		Formulate manpower planning strategy		
Formulate strategies to equip staff with skills required by industry and/or engineering standards				
Establish budget for the department				
Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)	
	Asset Management	Level 6	Communication	Advanced
	Budgeting	Level 5	Leadership	Advanced
	Business Continuity Management	Level 6	Decision Making	Advanced
	Change Management	Level 6	Interpersonal Skills	Advanced
	Condition-based Assets Monitoring Management	Level 5	Resource Management	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.