

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT SKILLS MAP - SENIOR ENGINEER/ENGINEER (ENGINEERING TRAIN)						
Sector	Public Transport					
Track	Rail Engineering					
Sub-Track	Engineering Train					
Occupation	Rail Engineer					
Job Role	Senior Engineer/Engineer (Engineering Train)					
Job Role Description	<p>The Senior Engineer/Engineer (Engineering Train) leads multiple teams in performing preventive and corrective maintenance for engineering trains. He/She is accountable for planning the maintenance work activities, providing technical advice to team members as well as supervising complex maintenance issues pertaining to fault analyses and testing of engineering trains. He is also involved in the engagement and management of external contractors and ensuring the achievement of operating standards and quality standards.</p> <p>He is required to work in rotating shifts and carries out his duties at various train depots and workshops. He is a team player with good interpersonal skills, exhibiting strong supervisory and leadership skills while also able to work independently in making informed decisions for the section.</p>					
Critical Work Functions and Key Tasks	Critical Work Functions	Maintain engineering trains	Key Tasks			
			Manage engineering trains preventive maintenance work carried out across multiple teams			
			Manage engineering trains corrective maintenance work carried out across multiple teams			
	Support maintenance activities and operational requirements	Support maintenance activities and operational requirements	Supervise complex fault analysis and testing of engineering trains			
			Define procurement specifications for the sourcing of vendors			
			Manage contractors and stakeholders external to the engineering train team to ensure safety requirements, operating standards and quality standards are met			
			Manage the condition and quantity of supplies required for maintenance activities at work base			
			Endorse inspection and maintenance documents for work closure			
			Ensure workplace adherence with Workplace Safety and Health (WSH) policies, procedures and regulations when carrying out work			
	Support continuous improvement activities to enhance service reliability	Support continuous improvement activities to enhance service reliability	Ensure workplace adherence with the Rapid Transit System (RTS) Codes of Practice			
			Evaluate recommendations on workflow improvements to enhance the reliability and efficiency of engineering trains			
			Support the implementation of engineering initiatives to enhance the reliability and efficiency of engineering trains			
	Manage people and team performance	Manage people and team performance	Conduct engineering studies to improve reliability and efficiency of engineering trains			
			Re-prioritise work activities and manpower allocation to address deviation from planned maintenance schedules			
			Identify team's training needs			
			Track section's expenditure to assist in the forecasting of annual budget			
	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)			
			Asset Management	Level 4	Communication	Intermediate
			Budgeting	Level 3	Problem Solving	Intermediate
			Change Management	Level 4	Leadership	Intermediate
			Condition-based Assets Monitoring Management	Level 3	Decision Making	Intermediate
			Continuous Improvement Management	Level 4	Resource Management	Intermediate
			Data and Statistical Analytics	Level 4		
			Equipment Maintenance and Housekeeping	Level 3		
			Heavy Crane Vehicle Maintenance	Level 4		
			Heavy Lifting Machinery Operation	Level 2		
			Innovation Management	Level 4		
			Internet of Things Application	Level 3		
			Inventory Management	Level 3		
			Locomotive Maintenance	Level 4		
			Maintenance Scheduling	Level 4		
Manpower Planning and Deployment	Level 3					

Skills & Competencies	Multi Function Vehicle Maintenance	Level 4
	People Development	Level 4
	Project Management	Level 4
	Rail Grinding Vehicle Maintenance	Level 4
	Rail Regulatory Compliance	Level 4
	Report Writing	Level 3
	Robotics and Automation Application	Level 3
	Staff Performance Management	Level 3
	Stakeholder Management	Level 3
	Systems Engineering Thinking	Level 4
	Technology Application	Level 2
	Track Tamping Vehicle Maintenance	Level 4
	Vendor Management	Level 3
	Wagon Maintenance	Level 4
	Workplace Facilities Safety Management	Level 3
	Workplace Safety and Health Culture Development	Level 4
	Workplace Safety and Health for Confined Spaces	Level 3
	Workplace Safety and Health for Electrical Safety	Level 3
	Workplace Safety and Health for Fire Prevention and Fire Fighting	Level 2
	Workplace Safety and Health for Incident and Accident Investigation	Level 3
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.