

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT SKILLS MAP - SENIOR ENGINEER/ENGINEER (ROLLING STOCK)						
Sector	Public Transport					
Track	Rail Engineering					
Sub-Track	Rolling Stock					
Occupation	Rail Engineer					
Job Role	Senior Engineer/Engineer (Rolling Stock)					
Job Role Description	<p>The Senior Engineer/Engineer (Rolling Stock) leads multiple teams in performing preventive and corrective maintenance for passenger trains. He/She is accountable for planning the maintenance work activities, providing technical advice to team members as well as supervising complex issues pertaining to fault analyses and testing of rolling stock. 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 carry out his duties at various rail premises such as workshops, depots and plants. He has a strong working knowledge of rolling stock architecture and is systematic in solving engineering challenges. He is a team player with good interpersonal skills and demonstrates strong supervisory and leadership skills to implement work processes and systems in meeting operations and maintenance requirements.</p>					
Critical Work Functions and Key Tasks	Critical Work Functions	Maintain rolling stock	Key Tasks			
			Manage rolling stock preventive maintenance work carried out across multiple teams			
			Manage rolling stock corrective maintenance work carried out across multiple teams			
	Support maintenance activities and operational requirements		Supervise complex fault analysis and testing of rolling stock			
			Define procurement specifications for the sourcing of vendors			
			Manage contractors and stakeholders external to the rolling stock 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		Ensure workplace adherence with the Rapid Transit System (RTS) Codes of Practice			
			Evaluate recommendations on workflow improvements to enhance the reliability and efficiency of rolling stock			
			Support the implementation of engineering initiatives to enhance the reliability and efficiency of rolling stock			
	Manage people and team performance		Conduct engineering studies to improve reliability and efficiency of rolling stock			
			Re-prioritise work activities and manpower allocation to address deviation from planned maintenance schedule			
			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 Lifting Machinery Operation	Level 2		
			Innovation Management	Level 4		
			Internet of Things Application	Level 3		
			Inventory Management	Level 3		
			Maintenance Scheduling	Level 4		
			Manpower Planning and Deployment	Level 3		
			People Development	Level 4		
Project Management	Level 4					

Skills & Competencies	Rail Regulatory Compliance	Level 4
	Report Writing	Level 3
	Robotics and Automation Application	Level 3
	Rolling Stock Air Condition and Ventilation Systems Maintenance	Level 4
	Rolling Stock Auxiliary Systems Maintenance	Level 4
	Rolling Stock Bogie Maintenance	Level 4
	Rolling Stock Brake Systems Maintenance	Level 4
	Rolling Stock Car Body Maintenance	Level 4
	Rolling Stock On-Board Control Systems Maintenance	Level 4
	Rolling Stock Power Systems Maintenance	Level 4
	Rolling Stock Propulsion Systems Maintenance	Level 4
	Staff Performance Management	Level 3
	Stakeholder Management	Level 3
	Systems Engineering Thinking	Level 4
	Technology Application	Level 2
	Vendor Management	Level 3
	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.