

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT SKILLS MAP - SENIOR ENGINEER/ENGINEER (AUTOMATIC FARE COLLECTION)				
Sector	Public Transport			
Track	Rapid Transit System Engineering			
Sub-Track	Automatic Fare Collection			
Occupation	Rail Engineer			
Job Role	Senior Engineer/Engineer (Automatic Fare Collection)			
Job Role Description	<p>The Senior Engineer/Engineer (Automatic Fare Collection) is responsible for leading multiple teams in performing preventive and corrective maintenance for Automatic Fare Collection (AFC) systems. He/She is required to provide innovative recommendations to support organisational continuous improvement plans as well as re-prioritise work activities and address maintenance requirements. He is 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 in the depot, workshop and/or at various train stations. He is well-organised and methodical in approaching engineering challenges and has good problem solving skills. He is resourceful and a good planner in allocating manpower and engineering resources to meet the maintenance requirements of the organisation.</p>			
Critical Work Functions and Key Tasks	Critical Work Functions	Maintain Automatic Fare Collection (AFC) systems	Key Tasks	
			Manage AFC systems preventive maintenance work carried out across multiple teams	
			Manage the AFC systems 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 AFC systems	
			Define procurement specifications for the sourcing of vendors	
			Manage contractors and stakeholders external to the AFC 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 AFC systems	
			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 AFC systems	
			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				
Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)	
	Asset Management	Level 4	Communication	Intermediate
	Automatic Fare Collection Auxiliary Systems Maintenance	Level 4	Problem Solving	Advanced
	Automatic Fare Collection Gate Maintenance	Level 4	Leadership	Intermediate
	Automatic Fare Collection Sales Device Maintenance	Level 4	Decision Making	Intermediate
	Budgeting	Level 3	Resource Management	Intermediate
	Change Management	Level 4		
	Condition-based Assets Monitoring Management	Level 3		
	Continuous Improvement Management	Level 4		
	Data and Statistical Analytics	Level 4		
	Equipment Maintenance and Housekeeping	Level 3		
	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	
	Rail Regulatory Compliance	Level 4	
	Report Writing	Level 3	
	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 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.