

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT				
SKILLS MAP - PRINCIPAL ENGINEER/ENGINEERING MANAGER (AUTOMATIC FARE COLLECTION)				
<b>Sector</b>	Public Transport			
<b>Track</b>	Rapid Transit System Engineering			
<b>Sub-Track</b>	Automatic Fare Collection			
<b>Occupation</b>	Rail Engineer			
<b>Job Role</b>	Principal Engineer/Engineering Manager (Automatic Fare Collection)			
<b>Job Role Description</b>	<p>The Principal Engineer/Engineering Manager (Automatic Fare Collection) leads the maintenance work involving Automatic Fare Collection (AFC) systems when partnering with cross-functional teams. He/She also applies technical expertise to improve maintenance regime, provide advice on engineering studies and new engineering initiatives, as well as the engagement and management of external contractors.</p> <p>He may be required to carry out his duties in the depot, workshop and/or at various train stations. He has excellent problem solving and analytical skills. He also applies managerial skills to lead his team to fulfil the responsibilities of operational activities and facilitates the implementation of organisational maintenance regimes and continuous improvement initiatives.</p>			
<b>Critical Work Functions and Key Tasks</b>	<b>Critical Work Functions</b>	Maintain Automatic Fare Collection (AFC) systems	<b>Key Tasks</b>	
			Lead the execution of cross-functional preventive maintenance work involving AFC systems	
			Lead the execution of cross-functional corrective maintenance work involving AFC systems	
	Support maintenance activities and operational requirements	Support maintenance activities and operational requirements	Lead technical recovery, complex fault analysis, and testing of AFC systems	
			Recommend vendors based on proposal evaluation and cost estimation	
			Manage multiple contractors and stakeholders external to the AFC team to ensure safety requirements, operating standards and quality standards are met	
			Ensure workplace adherence with Workplace Safety and Health (WSH) policies, procedures and regulations when carrying out work	
	Drive continuous improvement activities to enhance service reliability	Drive continuous improvement activities to enhance service reliability	Ensure workplace adherence with the Rapid Transit System (RTS) Codes of Practice	
			Formulate improvement plans for maintenance processes	
			Implement enhanced maintenance regimes to improve the reliability and efficiency of AFC systems	
	Manage people and team performance	Manage people and team performance	Evaluate the feasibility of engineering studies to improve the reliability and efficiency of AFC systems	
			Evaluate and approve maintenance schedule deviations to re-allocate manpower	
			Implement training plans for staff to meet industry requirements and/or engineering standards	
Manage annual budget required by the branch				
<b>Skills &amp; Competencies</b>	<b>Technical Skills &amp; Competencies</b>		<b>Generic Skills &amp; Competencies (Top 5)</b>	
	Asset Management	Level 5	Leadership	Intermediate
	Budgeting	Level 4	Communication	Intermediate
	Business Continuity Planning	Level 5	Decision Making	Intermediate
	Change Management	Level 5	Resource Management	Intermediate
	Condition-based Assets Monitoring Management	Level 4	Problem Solving	Advanced
	Continuous Improvement Management	Level 5		
	Data and Statistical Analytics	Level 5		
	Engineering Maintenance Management	Level 4		
	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		
Staff Performance Management	Level 4			

	Stakeholder Management	Level 4	
	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 4	
<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.