

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT				
SKILLS MAP - CHIEF ENGINEER/SENIOR ENGINEERING MANAGER (AUTOMATIC FARE COLLECTION)				
Sector	Public Transport			
Track	Rapid Transit System Engineering			
Sub-Track	Automatic Fare Collection			
Occupation	Rail Engineer			
Job Role	Chief Engineer/Senior Engineering Manager (Automatic Fare Collection)			
Job Role Description	<p>The Chief Engineer/Senior Engineering Manager (Automatic Fare Collection) leads and facilitates the implementation of Automatic Fare Collection (AFC) maintenance regime within the organisation. He/She works closely with the authorities in implementing new engineering initiatives to enhance the reliability of AFC systems. He demonstrates his technical expertise in providing advice to cross-disciplinary engineering studies. His role also includes the establishment of competency standards and engineering standards to ensure staff are equipped with relevant skills.</p> <p>He excels in operating in a collaborative environment and functions through his understanding of the operational activities, industry developments and regulatory requirements. He maintains a forward-thinking mindset to contribute strategically towards achieving the department's goals.</p>			
Critical Work Functions and Key Tasks	Critical Work Functions	Lead maintenance activities and operational requirements	Key Tasks	
			Facilitate the implementation of departmental and/or organisational maintenance regimes and best practices	
			Develop failure management and technical recovery procedures to expedite Automatic Fare Collection (AFC) systems fault recovery process	
			Approve appointment of vendors based on allocated financial limits	
			Operationalise new measures to mitigate workplace safety risks	
	Operationalise new measures in ensuring adherence to the Rapid Transit System (RTS) Codes of Practice			
	Drive continuous improvement activities to enhance service reliability	Implement improved maintenance regimes to enhance the reliability and efficiency of AFC systems		
		Lead cross-disciplinary engineering studies to ensure alignment with business objectives		
		Collaborate with authorities to implement new AFC technologies		
	Manage people and organisational functions	Implement manpower planning strategy		
		Establish competency standards and engineering standards for staff development and up-skilling		
		Manage annual budget required by the department		
		Manage department's performance in achieving Key Performance Indicators (KPIs)		
Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)	
	Asset Management	Level 6	Resource Management	Intermediate
	Budgeting	Level 4	Decision Making	Intermediate
	Business Continuity Planning	Level 5	Interpersonal Skills	Advanced
	Change Management	Level 5	Leadership	Advanced
	Condition-based Assets Monitoring Management	Level 5	Problem Solving	Intermediate
	Continuous Improvement Management	Level 5		
	Data and Statistical Analytics	Level 5		
	Engineering Maintenance Management	Level 5		
	Innovation Management	Level 5		
	Internet of Things Application	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		
	Strategy Planning	Level 5		
	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 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.