

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT SKILLS MAP - TECHNICIAN (MECHANICAL AND ELECTRICAL)				
Sector	Public Transport			
Track	Rail Engineering			
Sub-Track	Mechanical and Electrical			
Occupation	Rail Technician			
Job Role	Technician (Mechanical and Electrical)			
Job Role Description	<p>The Technician (Mechanical and Electrical) works in a team to perform preventive and corrective maintenance of mechanical and electrical systems at various rail premises. He/She assists in the preparation of maintenance work and performs routine maintenance under supervision. He supports the team in conducting fault analysis and testing to improve the reliability of mechanical and electrical systems as well as supervises the work of contractors and external stakeholders in ensuring compliance to safety requirements and operating standards.</p> <p>He is required to work in shifts and carries out his duties in the workshops and at various train stations. He is technically inclined and adept in the repair and maintenance of mechanical and electrical systems. He is capable of communicating effectively within the team, able to multi-task and prioritise his assigned maintenance workload in supporting maintenance activities.</p>			
Critical Work Functions and Key Tasks	Critical Work Functions	Key Tasks		
	Maintain mechanical and electrical systems	Perform preventive maintenance of mechanical and electrical systems		
		Perform corrective maintenance of mechanical and electrical systems		
		Assist in conducting fault analysis and testing of mechanical and electrical systems		
	Support maintenance activities and operational requirements	Supervise the work of contractors and stakeholders external to the mechanical and electrical team to ensure safety requirements and operating standards are met		
		Ensure proper housekeeping of spare parts, equipment and tools		
		Document inspection and maintenance activities		
		Comply with Workplace Safety and Health (WSH) policies, procedures and regulations when carrying out work		
Comply with the Rapid Transit System (RTS) Codes of Practice				
Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)	
	Condition-based Assets Monitoring Management	Level 1	Teamwork	Basic
	Data and Statistical Analytics	Level 1	Communication	Basic
	Drainage, Plumbing and Sanitary Systems Maintenance	Level 1, Level 2	Interpersonal Skills	Basic
	Equipment Maintenance and Housekeeping	Level 1	Problem Solving	Basic
	Escalator and Travellator Maintenance	Level 1, Level 2	Lifelong Learning	Basic
	Fire Protection Systems Maintenance	Level 1, Level 2		
	Internet of Things Application	Level 2		
	Lift Systems Maintenance	Level 1, Level 2		
	Platform Screen Door Maintenance	Level 1, Level 2		
	Rail Regulatory Compliance	Level 1		
	Report Writing	Level 1		
	Robotics and Automation Application	Level 2		
	Station Air-Conditioning Systems Maintenance	Level 1, Level 2		
	Track Access Management	Level 1		
	Vendor Management	Level 1		
	Ventilation System Maintenance	Level 1, Level 2		
	Workplace Facilities Safety Management	Level 2		
	Work at Heights	Level 1		
	Workplace Safety and Health for Confined Spaces	Level 1		
	Workplace Safety and Health for Electrical Safety	Level 1		
Workplace Safety and Health for Fire Prevention and Fire Fighting	Level 1			
Workplace Safety and Health for Incident and Accident Investigation	Level 2			

Programme Listing	For a list of Training Programmes available for the Public Transport sector, please visit: www.skillsfuture.sg/skills-framework/public-transport
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The information contained in this document serves as a guide.