

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT SKILLS MAP - TECHNICIAN (SIGNAL AND COMMUNICATIONS)					
Sector	Public Transport				
Track	Rail Engineering				
Sub-Track	Signal and Communications				
Occupation	Rail Technician				
Job Role	Technician (Signal and Communications)				
Job Role Description	<p>The Technician (Signal and Communications) works in a team to perform preventive and corrective maintenance of signal, communication and control systems to improve the reliability of signal, communication and control systems. He/She assists in the preparation of maintenance activities and is technically inclined and adept in handling electronics and computer-based systems and equipment for maintenance. He also supervises the work of contractors and external stakeholders in ensuring adherence to operating requirements and safety standards.</p> <p>He may be required to perform shift duties at various rail premises such as workshops, depots, train stations, and train tunnels. He is capable of communicating effectively within the team, is able to multi-task and can prioritise his assigned maintenance workload in supporting maintenance activities.</p>				
Critical Work Functions and Key Tasks	Critical Work Functions	Key Tasks			
		Maintain signal, communication and control systems	Perform preventive maintenance of signal, communication and control systems Perform corrective maintenance of signal, communication and control systems Assist in conducting fault analysis and testing of signal, communication and control system		
		Support maintenance activities and operational requirements	Supervise the work of contractors and stakeholders external to the Signal and Communications 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)	
		Communication Auxiliary Systems Maintenance	Level 1, Level 2	Communication	Basic
		Communication Backbone System Maintenance	Level 1, Level 2	Interpersonal Skills	Basic
		Communication Power System Maintenance	Level 1, Level 2	Lifelong Learning	Basic
Condition-based Assets Monitoring Management		Level 1	Teamwork	Basic	
Data and Statistical Analytics		Level 1	Problem Solving	Basic	
Emergency and Security Communication Systems Maintenance		Level 1, Level 2			
Equipment Maintenance and Housekeeping		Level 1			
Internet of Things Application		Level 2			
Network Systems Maintenance		Level 1, Level 2			
Radio System Maintenance		Level 1, Level 2			
Rail Regulatory Compliance		Level 1			
Report Writing		Level 1			
Robotics and Automation Application		Level 2			
Signal Interlocking Systems Maintenance		Level 1, Level 2			
Signalling Auxiliary Device and Equipment Maintenance		Level 1, Level 2			
Supervisory Control and Data Acquisition System Maintenance		Level 1, Level 2			
Trackside Automatic Train Control Equipment Maintenance		Level 1, Level 2			
Train Supervisory System Maintenance		Level 1, Level 2			
Trainborne Automatic Train Control Equipment Maintenance		Level 1, Level 2			
Travel Information System Maintenance		Level 1, Level 2			
Vendor Management	Level 1				
Video Surveillance System Maintenance	Level 1, Level 2				
Work at Heights	Level 1				

	Workplace Facilities Safety Management	Level 2	
	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		

The information contained in this document serves as a guide.