

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT				
SKILLS MAP - SENIOR ASSISTANT ENGINEER/ASSISTANT ENGINEER (SIGNAL AND COMMUNICATIONS)				
<b>Sector</b>	Public Transport			
<b>Track</b>	Rail Engineering			
<b>Sub-Track</b>	Signal and Communications			
<b>Occupation</b>	Rail Engineer			
<b>Job Role</b>	Senior Assistant Engineer/Assistant Engineer (Signal and Communications)			
<b>Job Role Description</b>	<p>The Senior Assistant Engineer/Assistant Engineer (Signal and Communications) supervises his/her team in performing preventive and corrective maintenance work on signal, communication and control systems. He also contributes to workflow improvements to enhance the reliability of the signal, communication and control systems, as well as supervising and ensuring the work quality and safety of external contractors and/or stakeholders.</p> <p>He may be required to perform shift duties at various rail premises such as workshops, depots, train stations, and train tunnels. He demonstrates team leadership skills in ensuring the team carries out the maintenance work in a safe and orderly manner, as well as manages the team's performance in achieving established Key Performance Indicators (KPIs).</p>			
<b>Critical Work Functions and Key Tasks</b>	<b>Critical Work Functions</b>	Maintain signal, communication and control systems	<b>Key Tasks</b>	
			Supervise the execution of signal, communication and control systems preventive maintenance work	
			Supervise the execution of signal, communication and control systems corrective maintenance work	
	Support maintenance activities and operational requirements	Support continuous improvement activities to enhance service reliability	Perform complex fault analysis and testing of signal, communication and control systems	Supervise and facilitate the work of contractors and stakeholders external to the Signal and Communications team to ensure safety requirements, operating standards and quality standards are met
			Track the quantity of supplies required for maintenance activities at work base	Validate inspection and maintenance documents
			Ensure workplace adherence to Workplace Safety and Health (WSH) policies, procedures and regulations when carrying out work	Ensure workplace adherence with the Rapid Transit System (RTS) Codes of Practice
			Propose workflow improvements to enhance the efficiency and reliability of signal, communication and control systems	Carry out engineering improvement activities to enhance the reliability of signal, communication and control systems
	Manage people and team performance	Support continuous improvement activities to enhance service reliability	Plan work activities and manpower allocation	Perform on-the-job coaching
			Perform on-the-job coaching	Manage team's performance in achieving Key Performance Indicators (KPIs)
			Manage team's performance in achieving Key Performance Indicators (KPIs)	
<b>Skills &amp; Competencies</b>	<b>Technical Skills &amp; Competencies</b>		<b>Generic Skills &amp; Competencies (Top 5)</b>	
	Asset Management	Level 3	Communication	Intermediate
	Communication Auxiliary Systems Maintenance	Level 3	Interpersonal Skills	Intermediate
	Communication Backbone System Maintenance	Level 3	Leadership	Intermediate
	Communication Power System Maintenance	Level 3	Lifelong Learning	Intermediate
	Condition-based Assets Monitoring Management	Level 2	Problem Solving	Intermediate
	Continuous Improvement Management	Level 3		
	Data and Statistical Analytics	Level 3		
	Emergency and Security Communication Systems Maintenance	Level 3		
	Equipment Maintenance and Housekeeping	Level 2		
	Innovation Management	Level 3		
	Internet of Things Application	Level 3		
	Inventory Management	Level 3		
	Maintenance Scheduling	Level 3		
	Manpower Planning and Deployment	Level 3		
	Network Systems Maintenance	Level 3		
	People Development	Level 3		
	Radio System Maintenance	Level 3		
	Rail Regulatory Compliance	Level 3		

<b>Competencies</b>	Report Writing	Level 2
	Robotics and Automation Application	Level 3
	Signal Interlocking Systems Maintenance	Level 3
	Signalling Auxiliary Device and Equipment Maintenance	Level 3
	Staff Performance Management	Level 3
	Supervisory Control and Data Acquisition System Maintenance	Level 3
	Trackside Automatic Train Control Equipment Maintenance	Level 3
	Train Supervisory System Maintenance	Level 3
	Trainborne Automatic Train Control Equipment Maintenance	Level 3
	Travel Information System Maintenance	Level 3
	Vendor Management	Level 2
	Video Surveillance System Maintenance	Level 3
	Work at Heights	Level 3
	Workplace Facilities Safety Management	Level 3
	Workplace Safety and Health Culture Development	Level 3
	Workplace Safety and Health for Confined Spaces	Level 3
	Workplace Safety and Health for Electrical Safety	Level 2
	Workplace Safety and Health for Fire Prevention and Fire Fighting	Level 2
	Workplace Safety and Health for Incident and Accident Investigation	Level 3
	<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.