

SKILLS FRAMEWORK FOR PUBLIC TRANSPORT					
SKILLS MAP - SENIOR ASSISTANT ENGINEER/ASSISTANT ENGINEER (MECHANICAL AND ELECTRICAL)					
Sector	Public Transport				
Track	Rail Engineering				
Sub-Track	Mechanical and Electrical				
Occupation	Rail Engineer				
Job Role	Senior Assistant Engineer/Assistant Engineer (Mechanical and Electrical)				
Job Role Description	<p>The Senior Assistant Engineer/Assistant Engineer (Mechanical and Electrical) supervises his/her team in performing preventive and corrective maintenance work on mechanical and electrical systems. His duties also include proposing workflow improvements to improve the reliability of the mechanical and electrical systems. He also manages his team's performance in achieving established Key Performance Indicators (KPIs) as well as facilitating the work of external contractors.</p> <p>He is required to work in shifts and carries out his duties at various rail premises such as workshops and at various train stations. He has strong mechanical and electrical fundamentals and is meticulous in ensuring that maintenance work and activities are performed in a safe and orderly fashion by the team. He possesses an analytical mindset and is able to exhibit leadership skills in his team.</p>				
Critical Work Functions and Key Tasks	Critical Work Functions	Maintain mechanical and electrical systems	Key Tasks		
			Supervise the execution of mechanical and electrical systems preventive maintenance work		
			Supervise the execution of mechanical and electrical 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 mechanical and electrical systems	Supervise and facilitate the work of contractors and stakeholders external to the mechanical and electrical team to ensure safety requirements, operating standards and quality standards are met	
			Track quantities of and support the requisition of maintenance supplies and expendables required 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 reliability and efficiency of mechanical and electrical systems	Carry out engineering improvement activities to enhance the reliability and efficiency of mechanical and electrical 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)		
	Skills & Competencies	Technical Skills & Competencies		Generic Skills & Competencies (Top 5)	
		Asset Management	Level 3	Communication	Intermediate
Condition-based Assets Monitoring Management		Level 2	Leadership	Intermediate	
Continuous Improvement Management		Level 3	Teamwork	Intermediate	
Data and Statistical Analytics		Level 3	Problem Solving	Intermediate	
Drainage, Plumbing and Sanitary Systems Maintenance		Level 3	Interpersonal Skills	Basic	
Equipment Maintenance and Housekeeping		Level 2			
Escalator and Travellator Maintenance		Level 3			
Fire Protection Systems Maintenance		Level 3			
Innovation Management		Level 3			
Internet of Things Application		Level 3			
Inventory Management		Level 3			
Lift Systems Maintenance		Level 3			
Maintenance Scheduling		Level 3			
Manpower Planning and Deployment		Level 3			
People Development		Level 3			
Platform Screen Door Maintenance		Level 3			
Rail Regulatory Compliance		Level 3			
Report Writing		Level 2			

	Robotics and Automation Application	Level 3	
	Staff Performance Management	Level 3	
	Station Air-Conditioning Systems Maintenance	Level 3	
	Track Access Management	Level 1	
	Vendor Management	Level 2	
	Ventilation 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	
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.