

<b>SKILLS FRAMEWORK FOR ENGINEERING SERVICES</b> <b>SKILLS MAP – ASSISTANT ENGINEER/SENIOR TECHNICIAN (OPERATIONS AND MAINTENANCE)</b>				
<b>Sector</b>	Engineering Services			
<b>Track</b>	Operations and Maintenance			
<b>Occupation</b>	Associate Professional and Technician			
<b>Job Role</b>	<b>Assistant Engineer/Senior Technician (Operations and Maintenance)</b>			
<b>Job Role Description</b>	<p>The Assistant Engineer/Senior Technician (Operations and Maintenance) is responsible for supporting the planning of corrective, preventive and predictive maintenance activities that ensure equipment and systems are fully functional and in optimal operating condition. He/She follows corporate guidelines and best practices, ensuring work activities are carried out safely and enhancing the organisation's compliance with regulatory and statutory policies, procedures and regulations. He follows emergency response plans and adheres to workplace safety and health (WSH) requirements.</p> <p>He is a good team player and is able to engage and interact with internal and external stakeholders. He possesses good analytical and problem-solving skills. He is also expected to work on-site, on a rotating or day-shift, and/or may be employed on-call basis.</p>			
<b>Critical Work Functions and Key Tasks / Performance Expectations</b>	<b>Critical Work Functions</b>	Maintain equipment and systems	<b>Key Tasks</b>	<b>Performance Expectations* (For legislated / regulated occupations)</b>
			Conduct testing of equipment and systems	
			Interpret results of equipment and systems testing	
			Perform repair works on equipment and systems	
			Interpret indicators of equipment and system damages and malfunctions	
			Document testing, maintenance and repair works in accordance with organisational procedures	
			Perform housekeeping of tools after maintenance and repairs	
	Support the testing and calibration of automated equipment, systems and controls			
	Conduct operations	Follow resourcing plans in support of engineering projects		
Operate equipment and systems in adherence to operational plans and Standard Operating Procedures (SOPs)				
<p>In accordance with:</p> <ul style="list-style-type: none"> <li>• Workplace Safety and Health (WSH) Act;</li> <li>• Building Control Act;</li> <li>• Electricity Act;</li> <li>• Fire Safety Act</li> </ul>				

		Apply emerging technologies for performance monitoring and process troubleshooting		
		Interpret indicators of equipment and system underperformance		
	Manage responses to emergencies and crises	Implement emergency response plans and relevant safety procedures		
		Supervise the emergency response team		
	Manage health, safety and environment	Comply with the organisational Workplace Safety and Health (WSH) policies and Environmental Management Systems (EMS)		
		Coordinate with contractors to ensure compliance with the organisational WSH and EMS standards and practices		
Support WSH and EMS accident and incident investigations				
		*Performance Expectations are non-exhaustive and subject to prevailing regulations		
<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
	Condition-based Assets Monitoring Management	Level 2	Teamwork	Intermediate
	Continuous Improvement Management	Level 2	Problem Solving	Intermediate
	Data and Statistical Analytics	Level 2	Interpersonal Skills	Intermediate
	Emergency Response Management	Level 2	Lifelong Learning	Basic
	Engineering Drawing Interpretation and Management	Level 2		
	Environmental Management System Framework Development and Implementation	Level 2		
	Equipment and Systems Repair	Level 3		
	Equipment and Systems Testing	Level 2		
	Equipment Maintenance and Housekeeping	Level 2		
	Facility Maintenance	Level 2		
	Hazards and Risk Identification and Management	Level 2		

	Internet of Things Management	Level 2	
	Inventory Management	Level 3	
	Preventive Maintenance	Level 2	
	Programme Management	Level 2	
	Quality System Management	Level 2	
	Robotic and Automation Technology Application	Level 2	
	Structural Testing	Level 2	
	Technical Inspection	Level 2	
	Technical Writing	Level 2	
	Technology Application	Level 2	
	Third Party Management	Level 3	
	Workplace Safety and Health Culture Development	Level 2	
	Workplace Safety and Health Framework Development and Implementation	Level 2	
<b>Programme Listing</b>	For a list of Training Programmes available for the Engineering Services sector, please visit: <a href="http://www.skillsfuture.sg/skills-framework/engineeringservices">www.skillsfuture.sg/skills-framework/engineeringservices</a>		

The information contained in this document serves as a guide.