

**SKILLS FRAMEWORK FOR SEA TRANSPORT
SKILLS MAP - ASSISTANT ENGINEER/SERVICE ENGINEER**

Sector	Sea Transport			
Track	Port			
Sub-track	Port Engineering			
Occupation	Port Engineer			
Job Role	Assistant Engineer/Service Engineer			
Job Role Description	The Assistant Engineer/Service Engineer assists in overseeing the maintenance and servicing regime of port equipment, while adapting and applying engineering techniques in trouble-shooting and repairing port equipment. He/She supervises a maintenance teams, ensures compliance with maintenance schedules, and works closely with others in the implementation of automated equipment and related technology in the ports. He demonstrates initiative in assigned tasks and is able to work well with others in a team environment while providing inputs to propose improvements to the organisation's workflow.			
Critical Work Functions and Key Tasks	Critical Work Functions		Key Tasks	
	Manage the development and procurement of port equipment and infrastructure		Prepare documentation for purchase of resources	
			Work with suppliers and vendors on the delivery of resources	
			Work closely with consultants or designers to ensure project objectives are met and budget adhered to	
			Control project quality to ensure project objectives are met	
	Oversee the implementation and maintenance of automated equipment and systems		Participate in testing of automated equipment in the ports	
			Assist in data collection during automated equipment testing	
	Improve reliability of existing port equipment and infrastructure through asset enhancement and maintenance programmes		Oversee the execution of preventive and corrective maintenance programmes	
			Oversee the execution of condition-based maintenance programmes	
	Implement preventive maintenance plans		Ensure routine maintenance is carried out in accordance with preventive maintenance plans	
			Supervise the work of maintenance teams and vendors	
			Assist with the development of preventive maintenance plans	
			Support and initiate enhanced maintenance systems and procedures to improve maintenance efficiency	
	Perform corrective maintenance and troubleshooting		Coordinate repair and maintenance functions	
		Track cost of repairs and maintenance		
		Provide technical support and knowledge for service recovery team in rectifying fault tracing and diagnosing breakdown problems		
		Certify modifications based on design implications		
		Plan implementation of projects by determining specifications, installation schedules and planned shut-downs		
Ensure compliance with workplace safety and health (WSH) policies, procedures and regulations		Comply with workplace safety and health policies, procedures and regulations when carrying out work		
Lead improvements to enhance efficiency		Propose workflow improvements to improve efficiency		
		Assist with implementation of workflow improvements to improve efficiency		
Skills and Competencies	Technical Skills and Competencies		Generic Skills and Competencies (Top 5)	
	Architecture Design	Level 3	Teamwork	Intermediate
	Budgeting	Level 3	Interpersonal Skills	Intermediate
	Business Continuity Management	Level 3	Communication	Intermediate
	Business Negotiation	Level 3	Managing Diversity	Intermediate
	Cash Flow Reporting	Level 3	Global Mindset	Intermediate
	Condition-based Monitoring	Level 3		
	Crisis Management	Level 3		
	Cyber Security	Level 3		
	Financial Analysis	Level 3		
	Financial Management	Level 3		
	Innovation	Level 3		
	Interface Management	Level 3		
	Networking	Level 3		
	Organisational Strategy and Policy Realisation	Level 3		
	Port Equipment Maintenance	Level 3		
	Resource Management	Level 3		
	System Configuration Management	Level 3		
	Systems Integration	Level 3		
Work at Heights	Level 3			

**Programme
Listing**

For a list of Training Programmes available for the Sea Transport sector, please visit:
www.skillsfuture.sg/skills-framework/sea-transport

The information contained in this document serves as a guide.