

**SKILLS FRAMEWORK FOR SEA TRANSPORT
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Workplace Safety and Health					
TSC	Maritime Hazards Identification					
TSC Description	Implement systematic approaches for hazard identification and risk assessment to eliminate or reduce risks effectively in maritime and shipping operations					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			STP-WSH-3092-1.1	STP-WSH-4092-1.1	STP-WSH-5092-1.1	
			Identify Health Safety, Security, Environment and Quality (HSSEQ) hazards, unsafe work conditions and/or practices and recommend reasonably practical control measures at the workplace in maritime and shipping operations	Develop and implement risk management plans to eliminate or reduce risks for a safe workplace with compliance to regulations and Health Safety, Security, Environment and Quality (HSSEQ) system requirements	Conduct risk assessments to identify and appraise hazards, evaluate the risks and estimate the costs due to the risks in maritime and shipping operations	
Knowledge			<ul style="list-style-type: none"> • Applicable HSSEQ legal and other requirements on maritime safety • Risk management processes • Types of HSSEQ hazards (including personal health issues) at the workplace • Methods of hazard identification • Unsafe work conditions • Unsafe work practices • Hierarchy of controls • Relevant stakeholders for implementing control measures • Gaps in the existing control measures and actual practices • Corrective actions and preventive actions 	<ul style="list-style-type: none"> • HSSEQ legal and other requirements on maritime safety • Industry best practices and codes of practice on risk management • Updates on amended or new HSSEQ legal requirements • Scoping of risk assessments • Risk assessments and risk management workflows and practices • Roles and responsibilities of the risk management teams • Types of hazards and personal health hazards • Human (including personal health issues) and cultural factors for risk assessments • Methods and criteria of risk evaluation • Types of risk matrices 	<ul style="list-style-type: none"> • Legal and other requirements applicable to risk management and maritime safety • Processes to develop risk management plans • Structure, responsibilities and competences of risk management and risk assessment teams • Routine and non-routine activities • Scope of risk assessments • Information relevant to risk assessments • Methods of hazard identification • Nature and types of HSSEQ hazards • Impact of hazards to safety and health of personnel • Methods of risk evaluation 	

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				<ul style="list-style-type: none"> • Risk evaluation procedures • Hierarchies and types of risk controls • Methods of implementing risk management • Types of HSSEQ communication • Documentation control for risk management 	<ul style="list-style-type: none"> • Types of risk assessment records used in risk assessments 	
Abilities			<ul style="list-style-type: none"> • Identify HSSEQ hazards including personal health issues, unsafe work conditions and practices at the workplace • Evaluate the risk level of the hazards identified • Recommend and implement HSSEQ control measures in accordance with the organisational risk management plans • Monitor and review the effectiveness of the implemented control measures • Identify gaps in the existing control measures and report to management for appropriate corrective actions and preventive actions 	<ul style="list-style-type: none"> • Establish risk management plans, workflows and practices • Determine scope and extent of risk assessments • List and communicate the roles and responsibilities of the risk management teams • Oversee the implementation of risk management to ensure staff and contractors at all levels understand the processes and act safely during work activities • Incorporate human (including personal health issues) and cultural factors in risk assessment processes • Align risk management practices with industry best practices • Manage and maintain documentation for risk management and review the documents on a regular basis to ensure their currency • Oversee risk management in areas of 	<ul style="list-style-type: none"> • Establish the workflow for risk management plans for the organisation in compliance with applicable maritime legal and other requirements • Form the risk management and risk assessment teams • Analyse organisation's routine and non-routine processes and activities to establish the scope of risk assessments • Identify types of hazards using relevant information • Evaluate the impact of the hazards to safety and health of personnel, and prioritise the risk levels using appropriate risk assessment methods 	

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				accountability <ul style="list-style-type: none"> Investigate risk management related issues and recommend improvements 		
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