

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

TSC Category	Cargo Operations					
TSC	Workplace Safety and Health for Crane Operations					
TSC Description	Carry out port crane operations in compliance with Workplace Safety and Health (WSH) legislative requirements					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	STP-CGO-1011-1.1	STP-CGO-2011-1.1				
	Practice basic Workplace Safety and Health (WSH) precautions in the course of performing lifting operations at the port with cranes	Practice Workplace Safety and Health (WSH) precautions in diverse lifting operations scenarios with various crane specifications				
Knowledge	<ul style="list-style-type: none"> Organisational procedures for providing feedback Types of cranes at the port and unsafe work conditions and practices related to crane operations Work areas, locations and contexts for crane operations at the port Types of workplace emergencies involving crane operations Organisational workplace emergency handling procedures and policies Duties and responsibilities of persons at work under WSH Act and subsidiary legislations Types and interpretation of safety signage Organisational procedures for pre-operational WSH checks on work areas for crane operations 	<ul style="list-style-type: none"> Risks related to personnel involved in port crane lifting operations Ground assessments to ensure that conditions are safe for crane lifting operations Types of legislations on lifting operations Roles and duties of personnel undertaking lifting operations and lifting supervisors Safe work procedures for lifting operations at the port Use of personal protective equipment (PPE) and tag lines for personnel undertaking lifting operations Types of loads, load charts and related terminologies Types and functions of cranes, components, rigging equipment, lifting gears and accessories 				

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	<ul style="list-style-type: none"> • Crane-related hazards and their respective risk controls • Common hazards arising from work activities involving port cranes • Organisational safe work procedures 	<ul style="list-style-type: none"> • Types and functions of communication equipment • Steps and measures to exclude unauthorised entry into lifting zones • Procedures in reporting abnormalities and defects of crane and associated equipment • Preventive measures and hazard control of lifting accidents 				
Abilities	<ul style="list-style-type: none"> • Identify own duties and responsibilities under WSH and subsidiary legislations • Perform house-keeping of crane cabins before starting operations • Identify hazards by conducting pre-operational safety checks on work areas and cranes and implement risk controls • Check to ensure proper use of appropriate PPE and tag lines for personnel in lifting operations 	<ul style="list-style-type: none"> • Check to ensure adherence to legislations and organisational safe work procedures • Check to ensure proper use of appropriate PPE and tag lines for personnel in lifting operations • Interpret load charts to verify the intended lift is within the Safe Working Load (SWL) of cranes • Verify pre-lift inspections of cranes, lifting gear and accessories • Check to ensure proper selection of rigging equipment, lifting gears and accessories for lifting loads • Check to ensure proper rigging of loads • Check to ensure proper set-up of communication equipment, serviceability of communications equipment and functionality of radio 				

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		<p>channels for safe lifting operations</p> <ul style="list-style-type: none"> • Report and rectify abnormalities and defects in cranes, lifting gear, accessories and communications equipment • Apply preventive measures and hazard control of lifting accidents according to organisational procedures 				
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