

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

TSC Category	Cargo Operations					
TSC	Lashing					
TSC Description	Carry out lashing operations with proper adherence to Workplace Safety and Health (WSH) requirements and coordination of lashing teams					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	STP-CGO-1005-1.1	STP-CGO-2005-1.1	STP-CGO-3005-1.1			
	Perform ship operations and lashing operations	Coordinate advanced lashing operations	Supervise lashing operations			
Knowledge	<ul style="list-style-type: none"> Types of lashing operations performed on-board ship or at ship wharf side Types and usage of lashing tools and equipment Risks and hazards in lashing operations Workplace Safety and Health requirements and procedures relating to ship and lashing operations Types of personal protective equipment (PPE) relating to ship and lashing operations Means of access to and from ships and containers Types of weather codes Ship and lashing operations personnel Common accidents and operational problems relating to lashing operations and the factors contributing to them 	<ul style="list-style-type: none"> Workplace Safety and Health (WSH) requirements and procedures relating to ship operations and lashing operations Crane sequences, discharging and loading lists Types of functional tests for lashing tools and equipment Number of workers and type of tools and equipment required for various lashing tasks Concepts relating to ships and lashing operations: <ul style="list-style-type: none"> Types of containers Types of hatch covers Types of ship operations Ship nomenclature Types of weather codes Types of access to and from the ship Radio functional tests, communication protocol and terminology 	<ul style="list-style-type: none"> Types and usage of lashing tools and equipment Workplace Safety and Health (WSH) requirements and procedures relating to lashing operations Organisational risk assessment protocol Types of access to and from the ship Ship characteristics Common operational problems relating to lashing operations Organisational standard operating procedures relating to lashing operations 			

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		<ul style="list-style-type: none"> • Terminology associated with changes to work plans • Common accidents, operational problems or hazards related to on-board operations • Hand-over procedures 				
Abilities	<ul style="list-style-type: none"> • Identify duties and responsibilities of employees in accordance with organisational WSH procedures and WSH legislative requirements • Identify hazards in lashing operations according to organisational WSH procedures and WSH legislative requirements • Identify duties and responsibilities of lashing specialists • Apply safety measures according to codes of practice relating to ship and lashing operations, relating to: <ul style="list-style-type: none"> ○ Use of quay crane spreaders for lashing operations ○ Working at vessel edge for lashing operations • Clarify exceptional issues relating to lashing equipment, personnel and locations according to organisational procedures • Check weather and lighting conditions inhibitory to lashing 	<ul style="list-style-type: none"> • Check for presence and condition of personal protective equipment (PPE), radio sets, lashing tools and equipment • Identify and remove any hazards during pre-operations checks • Pre-plan and organise lashing and unlashings work according to crane sequences and work plans provided by lashing supervisor or ship officers • Plan and supervise lashing operations for the assigned bays on-board the ship for discharging and loading operations: <ul style="list-style-type: none"> ○ Quay crane operators and lashing specialists for different type of containers, hatch and ship operations: ○ Identify exceptions for loading operations ○ Identify exceptions for discharging operations ○ Report accidents, operational problems or hazards to supervisors in 	<ul style="list-style-type: none"> • Identify duties and responsibilities of lashing supervisors • Deploy workers and equipment according to organisational operational needs • Facilitate equipment and tools necessary for daily work plans with personnel involved in lashing operations • Conduct risk assessments for lashing operations • Conduct toolbox briefings on safety measures relating to lashing operations • Conduct safety inspections relating to lashing operations • Apply conflict management techniques to resolve workplace disputes between workers • Adopt correct standard operating procedures to rectify operational issues relating to lashing operations • Apply correct procedures for injury and accident cases arising from lashing operations 			

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	<p>operations according to organisational procedures</p> <ul style="list-style-type: none"> • Report to supervisor of any non-conformances or inability to carry out the lashing operations 	<p>accordance with organisational procedures</p> <ul style="list-style-type: none"> • Use established communications protocol to convey instructions clearly over radio sets • Conduct functional tests for radio set in accordance with user manual • Conduct hand-over of duties and documents during shift change-over, including updates on work done, hazards and work methods employed • Account for all members of lashing team at end of shift or upon completion of ship operations • Accompany supervisor to do final quality checks of lashing work done before ship's estimated time of departure 	<ul style="list-style-type: none"> • Report exceptional issues and necessary follow-up actions 			
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