

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

TSC Category	Cargo Operations					
TSC	Stowage Load Planning					
TSC Description	Optimise container stowage load configurations and consolidation for vessels					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		STP-CGO-2026-1.1	STP-CGO-23026-1.1	STP-CGO-4026-1.1		
		Apply methods to optimise stowage load planning	Develop and implement methods or techniques to optimise stowage load planning	Develop strategies for optimised stowage load planning		
Knowledge		<ul style="list-style-type: none"> Freight dimensions, such as 'Less Container Load' and 'Full Container Load' Distribution centre activities and services Container dimensions and types Vessel stowage dimensions Factors impacting vessel stability 	<ul style="list-style-type: none"> Container systems and rates Methods of stowage planning for containers Methods for stowage planning space optimisation Container stowage planning procedures 	<ul style="list-style-type: none"> Customs requirements for points of destination Cost modelling Industry experience with container stowage planning optimisation Types of unauthorised cargo Methods to minimise stowage space loss 		
Abilities		<ul style="list-style-type: none"> Enhance container load configuration and consolidation activities Support container stowage planning optimisation initiatives Verify vessel stability is not compromised by container loading 	<ul style="list-style-type: none"> Analyse optimal stowage planning of containers and usage of appropriate loading equipment Implement container stowage planning optimisation initiatives Deploy test efforts to identify effective stowage planning configurations Deploy methods and techniques to revise and resolve stowage planning load differences 	<ul style="list-style-type: none"> Develop strategies to minimise space loss and optimise stowage load plans Review stowage load plans to ensure compliance to customs requirements Develop cost models to simulate optimal stowage load capacity Develop and share techniques that take into account port's loading facilities Review plans and schedules for manpower and 		

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				equipment requirements		
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