

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

TSC Category	Pilotage					
TSC	Pilotage Emergencies					
TSC Description	React and respond to problems and emergency situations in the course of pilotage					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
				STP-PLT-4001-1.1	STP-PLT-5001-1.1	
				Manage shipboard malfunctions and deal with emergencies	Report and investigate pilotage emergencies and propose remedial actions	
Knowledge				<ul style="list-style-type: none"> • Loadline regulations and watertight integrity • Cargo types and precautions • Port marine legislation and guidance • Port responsibilities and liabilities • Impact of pollution on the environment • Theory, operational principles and limitations of: <ul style="list-style-type: none"> ○ Distress, emergency signals and Global Maritime Distress Safety Systems (GMDSS) ○ Nautical terminology ○ Priorities and role of the Master and pilot ○ Sea survival ○ Search and rescue ○ Ship stability ○ Ship strength and construction ○ Steering, rudder types and manoeuvring systems ○ Tugs and towage 	<ul style="list-style-type: none"> • Types of pilotage emergencies • Methods to conduct systematic and well-documented investigations • Port marine legislation and guidance • Port responsibilities and liabilities • Methods of collecting and securing evidence • Types of remedial recommendations 	

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				<ul style="list-style-type: none"> • Effects of stress and fatigue on ship's capability • Impact of pilotage operations on other port users 		
Abilities				<ul style="list-style-type: none"> • Prioritise the safety of life and minimise risks to the vessel, other vessels in the vicinity, the environment and the local infrastructure in the event of an on-board malfunction • Review and revise the Pilotage Plans or abort the operations • Update Vessel Traffic Services (VTS) of malfunctions or problems • Develop planned responses for malfunctions or problems that may occur during the passage • Consult VTS to ensure intended actions in the planned responses are acceptable • Enact the port safety plans and the vessel safety plans • Act in accordance with port procedures and the vessel emergency plans • Report pollution to the Port Master promptly • Implement man overboard and search and rescue procedures 	<ul style="list-style-type: none"> • Provide information and support to regulatory agencies during investigations • Comply with regulatory reporting requirements • Maintain a record of incidents reported • Collect, preserve and document evidence systematically • Draft conclusions on the basis of objective interpretation of evidence • Determine if regulatory contravention has occurred • Produce formal findings for management's consideration • Propose recommendations for remedial actions to minimise risk of recurrence • Circulate findings and proposals to appropriate management and regulatory authorities • Implement and monitor remedial actions 	

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				<ul style="list-style-type: none"> • Advise VTS in the event of on-board emergencies promptly • Summon tug assistance in consultation with Port Master • Check the availability of safe anchorages • Effect safe beaching, grounding and anchoring • Comply with the Port Marine Emergency Plans 	
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