

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

TSC Category	Pilotage					
TSC	Pilotage Planning					
TSC Description	Plan an act of pilotage					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
				STP-PLT-4002-1.1	STP-PLT-5002-1.1	
				Obtain relevant data to produce a port passage plan	Evaluate and assess the ship's conditions and address deficiencies	
Knowledge				<ul style="list-style-type: none"> • Limits of the Pilotage District and local pilotage areas • Port Marine Circulars, Port Marine Notices, Pilotage Manual and Pilotage Guidelines • International Regulations for Preventing Collisions at Sea and pollution prevention rules • Theory, operational principles and limitations of: <ul style="list-style-type: none"> ○ Anchors and anchoring ○ Use of anchors while manoeuvring ○ Buoyage systems ○ Cargo types and cargo safety ○ Chartwork, corrections, and Electronic Chart Display and Information Systems (ECDIS) ○ Coastal navigation ○ Effects of weather and tide on ships 	<ul style="list-style-type: none"> • Compulsory and non-compulsory pilotage and limits of pilotage area • Liabilities and responsibilities of a Harbour Pilot • Impact of pilotage operations on other port users • Theory, operational principles and limitations of: <ul style="list-style-type: none"> ○ Anchors and anchoring ○ Use of anchors while manoeuvring ○ Buoyage systems ○ Cargo types and cargo safety ○ Chartwork, corrections and Electronic Chart Display and Information Systems (ECDIS) ○ Coastal navigation ○ Effects of weather and tide on ships ○ Embarkation and disembarkation techniques 	

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				<ul style="list-style-type: none"> ○ Embarkation and disembarkation techniques ○ Gyro and magnetic compasses ○ Hydrodynamics ○ Ship handling and manoeuvring theory ○ Hydrography ○ Meteorology ○ Nautical terminology ○ Pollution control ○ Steering, rudder types and manoeuvring systems ○ Tugs and towage ● Pilotage practices ● Height controlled and height restricted areas ● Anchorages in port – location and usage ● Layout of port facilities 	<ul style="list-style-type: none"> ○ Gyro and magnetic compasses ○ Hydrodynamics ○ Ship handling and manoeuvring theory ○ Hydrography ○ Meteorology ○ Nautical terminology ○ Pollution control ○ Steering, rudder types and manoeuvring systems ○ Tugs and towage ● Pilotage practices ● Height controlled and height restricted areas ● Anchorages in port – location and usage ● Layout of port facilities ● Process of submitting changes to port passage plan ● Key stakeholders involved in port passage plan 	
Abilities				<ul style="list-style-type: none"> ● Acquire information on the ship and the ship's condition ● Establish if the ship has visited the port before ● Consult current sounding charts, tidal and hydrographic information and weather forecasts ● Prepare the port passage plan ● Plan projected manoeuvring options ● Identify potential hazards, abort points and emergency anchorage positions 	<ul style="list-style-type: none"> ● Ascertain the effectiveness of the port passage plan ● Analyse data to ascertain amendments needed to the port passage plan ● Draft changes to port passage plan ● Liaise with key stakeholders on changes to port passage plan ● Communicate changes to port passage plan to harbour pilots 	

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				<ul style="list-style-type: none"> Ensure radio and/or other telecommunication working channels have been designated for tugs, mooring party and berthing master 		
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