

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

TSC Category	Ship Handling and Seamanship					
TSC	Steering and Helmsmanship					
TSC Description	Steer and manoeuvre ships safely while complying with helm orders					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	STP-SHS-1002-1.1					
	Steer the ship and comply with helm orders					
Knowledge	<ul style="list-style-type: none"> • Mechanics of steering, including the relationship of the propeller to the rudder, and between the wheel turn, rudder position and ship's heading • Standard helm commands and response • Principles of momentum and how it must be taken into account when steering • Significance of steerage way and losing steerage way • Effects from outside forces such as weather, wind and sea state on steering • Relationship of speed to steering (slower speed, increased helm; sea speed, minimum helm) • Operational differences between magnetic and gyro-compasses • Use of the automatic pilot, and response of wheel when autopilot is engaged; and use of non-follow-up switches 					

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	<ul style="list-style-type: none"> • Standard emergency procedures • Execution of Williamson turn • Steering during narrow channel transit • International Regulations for Preventing Collisions at Sea 					
Abilities	<ul style="list-style-type: none"> • Monitor ships' course using magnetic and gyro-compasses • Steady ships' courses on range or landmark • Hold order course over time • Comply with helm orders • Execute orders to change-over 					