

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

<b>TSC Category</b>	Ship Handling and Seamanship					
<b>TSC</b>	Ship Mooring, Anchoring and Securing Operations					
<b>TSC Description</b>	Manoeuvring of vessels, which covers securing, anchoring and mooring gear on completion, securing the vessel prior to departure and preparing for heavy weather.					
<b>TSC Proficiency Description</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>	<b>Level 5</b>	<b>Level 6</b>
	<b>STP-SHS-1003-1.1</b>	<b>STP-SHS-2003-1.1</b>				
	Carry out operations to anchor, moor and secure ships	Control anchoring, mooring and securing operations which include watch-keeping when moored or anchored				
<b>Knowledge</b>	<ul style="list-style-type: none"> <li>• Safety precautions to be observed when securing ships during mooring and anchoring operations</li> <li>• Types of anchors, cables and associated gear</li> <li>• Terminology and mooring systems for ships</li> <li>• Characteristics, safe handling and use of mooring ropes</li> <li>• Safety requirements and how to rig, recover and maintain means of safe access to vessels</li> <li>• Ship construction features for various ship types relevant to ensure water-tightness and checks for seaworthiness</li> <li>• Procedures relating to maintaining a deck watch and the actions to take to comply with watch-keeping instructions</li> <li>• Methods of securing openings prior to</li> </ul>	<ul style="list-style-type: none"> <li>• Safety precautions to be observed when securing vessels during mooring and anchoring operations</li> <li>• Types of anchors, cables and associated gear</li> <li>• Terminology and mooring systems for ships</li> <li>• Characteristics, safe handling and use of mooring ropes</li> <li>• Safety requirements and how to rig, recover and maintain means of safe access to ships</li> <li>• Methods to direct anchor parties in bringing ships to a single anchor</li> <li>• Methods to conduct a deck watch alongside or at anchor</li> <li>• Features of a ship's structure</li> <li>• Methods to confirm vessel openings and secure large objects prior to departure</li> <li>• Preparations for heavy weather</li> </ul>				

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	<p>departure and the extra precautions to be carried out when heavy weather is expected</p> <ul style="list-style-type: none"> <li>• Methods of securing large objects prior to sailing and how to check and maintain security at sea</li> <li>• Items to check and the frequency of inspections required for water-tightness and movement of cargo or equipment</li> <li>• Knots, splices, whippings and their uses</li> <li>• Regulations and guidelines, organisational instructions and guidance, and ship contingency plans</li> </ul>	<ul style="list-style-type: none"> <li>• Regulations and guidelines, organisational instructions and guidance, and vessel contingency plans</li> </ul>				
<p><b>Abilities</b></p>	<ul style="list-style-type: none"> <li>• Carry out anchoring operations in accordance with instructions received</li> <li>• Carry out mooring, letting go and ship-shifting operations in accordance with instructions received</li> <li>• Secure anchors, moorings and equipment on completion of operations according to organisational procedures</li> <li>• Establish safe access arrangements in accordance with instructions received</li> <li>• Secure ships for sea prior to departure in</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare for and control anchoring operations in accordance with organisational procedures</li> <li>• Prepare for and control mooring, letting go and ship-shifting operations in accordance with organisational procedures</li> <li>• Confirm anchors, moorings and equipment are secure on completion of operations</li> <li>• Control the rigging and securing of access arrangements in accordance with organisational procedures</li> </ul>				

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	<p>accordance with organisational procedures</p> <ul style="list-style-type: none"> <li>Secure ships for heavy weather at sea in accordance with organisational procedures</li> <li>Inform authorities when problems arise during mooring, anchoring and securing operations</li> </ul>	<ul style="list-style-type: none"> <li>Confirm the securing of the vessel for sea prior to departure and at sea for heavy weather</li> <li>Communicate the instructions for a deck watch to relevant personnel and confirm their understanding of the instructions</li> <li>Control the watch in accordance with instructions</li> <li>Take action if problems arise during mooring, anchoring, securing and watch-keeping operations in accordance with organisational procedures</li> </ul>				
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