

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

<b>TSC Category</b>	Marine Surveying					
<b>TSC</b>	Hull Inspections					
<b>TSC Description</b>	Conduct of hull inspections to determine its integrity and seaworthiness					
<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-MSU-4001-1.2</b>	<b>STP-MSU-5001-1.2</b>	
				Conduct marine surveys on ship hulls	Oversee and review survey findings for ship hulls	
<b>Knowledge</b>				<ul style="list-style-type: none"> <li>Types and classification requirements of vessels</li> <li>Hull structure and loads               <ul style="list-style-type: none"> <li>Factors that cause fatigue damages</li> <li>Relationship between stress concentration and fatigue life</li> </ul> </li> <li>Reasons for cleaning prior to inspections</li> <li>Difference between loads causing buckling and indents</li> <li>Principles of corrosion protection               <ul style="list-style-type: none"> <li>Coating breakdowns and its severity</li> <li>Triggers for corrosion</li> </ul> </li> <li>Components of inspection report</li> <li>International Safety Management (ISM) requirements</li> <li>Health, Safety, Security, Environment and Quality (HSSEQ) legislation and procedures</li> </ul>	<ul style="list-style-type: none"> <li>Types and classification requirements of vessels</li> <li>Hull structure and loads               <ul style="list-style-type: none"> <li>Factors that cause fatigue damages</li> <li>Relationship between stress concentration and fatigue life</li> </ul> </li> <li>Reasons for cleaning prior to inspections</li> <li>Difference between loads causing buckling and indents</li> <li>Principles of corrosion protection               <ul style="list-style-type: none"> <li>Coating breakdowns and its severity</li> <li>Triggers for corrosion</li> </ul> </li> <li>Components of inspection report</li> <li>International Safety Management (ISM) requirements</li> <li>Health, Safety, Security, Environment and Quality (HSSEQ) legislation and procedures</li> </ul>	
<b>Abilities</b>				<ul style="list-style-type: none"> <li>Determine critical areas to inspect</li> </ul>	<ul style="list-style-type: none"> <li>Review and validate survey findings and</li> </ul>	

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

				<ul style="list-style-type: none"> <li>• Identify critical areas for structural flaws, such as:             <ul style="list-style-type: none"> <li>○ Buckling and indents</li> <li>○ Fatigue cracks</li> <li>○ Details that are causing stress concentrations</li> </ul> </li> <li>• Differentiate the criticality of damages of structural members on different levels</li> <li>• Identify critical areas for corrosion</li> <li>• Propose areas for rectification</li> <li>• Utilise technologies to identify critical areas for further inspection</li> <li>• Report problems encountered during inspection with reference to hull damage, structural damages and coating and corrosion problems</li> </ul>	<p>necessary follow-up actions</p> <ul style="list-style-type: none"> <li>• Confirm causes of damage and suitability of proposed rectifications</li> <li>• Conduct random checks to confirm findings</li> <li>• Assess hull inspection reports to determine vessel's integrity</li> <li>• Differentiate the criticality of damages of structural members on different levels</li> </ul>	
--	--	--	--	--	---	--