

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

<b>TSC Category</b>	Fleet Management					
<b>TSC</b>	Ship Maintenance and Repair (Dock)					
<b>TSC Description</b>	Manage scheduling, resources and engineering work methods at the docks for maintenance on ships' equipment and systems to achieve renewal and extension of classification certificates					
<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-FMT-4007-1.1</b>	<b>STP-FMT-5007-1.1</b>	
				Manage dock-based maintenance requirements scheduling, work methods and resources for a ship's engineering equipment and systems	Oversee dock-based engineering and systems maintenance needs of the fleet to meet certificate renewal and extension requirements	
<b>Knowledge</b>				<ul style="list-style-type: none"> <li>Working principles, construction details, and maintenance requirements of ship systems and equipment</li> <li>Methods to determine and forecast maintenance requirements from operating conditions</li> <li>Requirements for statutory and classification society surveys and certifications</li> <li>Characteristics and limitations of materials and processes used in construction and repair of ships and equipment</li> <li>Statutory regulations and requirements pertaining to ship systems and equipment maintenance</li> </ul>	<ul style="list-style-type: none"> <li>Working principles, construction details, and maintenance requirements of ship systems and equipment</li> <li>Methods to determine and forecast maintenance requirements from operating conditions</li> <li>Requirements for statutory and classification society surveys and certifications</li> <li>Characteristics and limitations of materials and processes used in construction and repair of ships and equipment</li> <li>Statutory regulations and requirements pertaining to ship systems and equipment maintenance</li> <li>Maintenance requirements for ships' marine engineering systems</li> </ul>	

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

<p><b>Abilities</b></p>				<ul style="list-style-type: none"> <li>• Obtain data affecting current and/or potential engineering maintenance to determine maintenance requirements</li> <li>• Forecast the machinery and systems maintenance requirements and schedule based on known rates of deterioration</li> <li>• Identify work methods and activities required within maintenance plans, operational priorities, technical specifications, organisational objectives, safety and legal requirements</li> <li>• Take action on potential problems with implementation of the maintenance plans</li> <li>• Estimate resources required to implement the maintenance plans</li> <li>• Maintain and update documentation on maintenance works carried out</li> </ul>	<ul style="list-style-type: none"> <li>• Identify the overall maintenance requirements for ships' marine engineering systems, in accordance with statutory and organisational requirements, current data and forecast conditions of machinery and equipment</li> <li>• Verify continued validity of surveyed items and equipment for renewal and extension of certificates</li> <li>• Identify the priority levels and timing of maintenance, taking into account overall ship safety and commercial operations</li> <li>• Formulate maintenance requirements and plans to meet the demands for safe and efficient operations</li> <li>• Ensure maintenance objectives are achieved with optimised use of materials, capital and manpower</li> </ul>	