<table>
<thead>
<tr>
<th>TSC</th>
<th>Ship Navigation</th>
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<tbody>
<tr>
<td>TSC</td>
<td>Navigation Watch</td>
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</table>

**TSC Description**  
Conduct navigational watches to ensure ships' safe passage

<table>
<thead>
<tr>
<th>TSC Proficiency Description</th>
<th>Level 1</th>
<th>Level 2</th>
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<th>Level 4</th>
<th>Level 5</th>
<th>Level 6</th>
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<tbody>
<tr>
<td></td>
<td>STP-SNG-3003-1.1</td>
<td>STP-SNG-4003-1.1</td>
<td>Maintain safe navigational watches</td>
<td>Direct safe navigation of ships</td>
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**Knowledge**

- International Regulations for Preventing Collisions at Sea, 1972 (as amended)
- Principles to be observed in keeping navigational watches
- General provisions on ships' routing
- General principles for ship reporting systems and Vessel Traffic Service (VTS) procedures
- Fundamentals of radar and Automatic Radar Plotting Aid (ARPA)
- Radar navigation
- Blind pilotage techniques
- Electronic Chart Display and Information System (ECDIS), capabilities and limitations

- Interrelationship and optimum use of navigational data
- Electronic Chart Display and Information System (ECDIS)
- Management of operational procedures, system files and data
- Characteristics of various weather systems and ocean current systems
- Methods of manoeuvring and handling ships in all conditions
### Abilities

- Conduct the handover and relief of the navigational watch conforms with accepted principles and procedures
- Maintain a proper lookout at all times
- Ensure lights, shapes and sound signals conform with International Regulations for Preventing Collisions at Sea, 1972 (as amended)
- Use radar and ARPA to maintain navigation safety
- Monitor information on ECDIS to ensure navigation safety
- Take actions to avoid close encounters and collision with other ships
- Adjust course and/or speed in accordance with accepted navigation procedures
- Maintain records of movements and activities relating to ship navigation

- Establish watch-keeping arrangements and procedures in compliance with international regulations and guidelines
- Analyse information from navigation equipment and systems
- Implement command decisions for collision avoidance
- Monitor operational procedures for using ECDIS
- Use ECDIS and associated navigation systems to assist command decision-making
- Interpret synoptic charts and forecast area weather
- Maintain safety of navigation to minimise risks to safety of ships in all weather conditions