### TSC Category
Marine Surveying

### TSC
Marine Incident and Accident Investigations

### TSC Description
Investigate different types of marine incidents and accidents in collaboration with other relevant agencies, where necessary, to determine their causes and recommend preventive measures

<table>
<thead>
<tr>
<th>TSC Proficiency Description</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
<th>Level 6</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Conduct marine accident investigations</td>
<td></td>
<td></td>
<td>International legal bases for marine accident investigations</td>
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<td>Lead marine accident investigations</td>
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</tbody>
</table>

### Knowledge
- International legal bases for marine accident investigations
- International Safety Management (ISM) Code and accident investigation
- Types of marine accidents, including:
  - Collision, contact and grounding accidents
  - Ship fires
  - Ship structural failures, loading and stability problems
  - Mechanical failure and maintenance error accidents
  - Marine occupational health and safety accidents
- Management of marine accident investigations
  - Advanced interview techniques
  - Human performance and human factors in marine accidents
  - Human factors analysis and classification tools
- Marine accident site

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<tr>
<th>Abilities</th>
<th>Risk assessment and hazard identification procedures at a marine accident site</th>
<th>Workforce Safety and Health (WSH) policies and procedures</th>
<th>Coordinate with relevant agencies in investigative work</th>
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<tr>
<td>- Collaborate with relevant agencies in investigative work</td>
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<td>- Conduct witness interviews</td>
<td>- Engage with experts to gain alternative views</td>
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<td>- Collect material evidence from a variety of relevant sources</td>
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<td>- Vet proposed recommendations for future prevention</td>
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<td>- Analyse evidence to develop a no-blame report of what occurred</td>
<td>- Review evidences and coverage of no-blame reports of what occurred</td>
<td>- Determine viability of marine insurance claims</td>
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<td>- Propose recommendations for future prevention</td>
<td>- Evidence preservation and collection in common marine accident scenarios</td>
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