



**Subject Area no. 25: Environmental management**

**Principle:** The company manages the impact of its operations on the environment and integrates environmental requirements into the safety management system.

Level	Expectations	Targets	Suggested objective evidence
Basic	<p>The company has an environmental policy, procedures and standards. All aspect of the operations must be following international, national, regional, provincial and local environmental requirements.</p> <p>The company has a process for verifying compliance with environmental regulations The company has a process for familiarising personnel with environmental requirements</p>	<p>Policies, and procedures should cover:</p> <ul style="list-style-type: none"> <li>- environmental compliance covering oil &amp; oily water, sludge, bilge, oily leakages, chemicals, refrigerant gases, sewage, garbage and air pollution</li> <li>- ballast water management.</li> <li>- ship energy efficiency management plan</li> </ul> <p>Internal audits covering environmental processes.</p> <p>All company personnel are aware of company's environmental policy and are familiar with relevant procedures</p>	<ul style="list-style-type: none"> <li>- Environmental policies and procedures</li> <li>- Plan for compliance with regulations.</li> <li>- Garbage management plan</li> <li>-ballast water management plan</li> <li>-ship energy efficiency management plan</li> </ul> <p>Records of internal audits</p> <p>-training &amp; familiarisation</p>



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Intermediate	<p>The company identifies all aspects of its operations which interact with the environment (air, land, water, etc.) and conducts environmental impact assessments.</p> <p>The company audits compliance through vessel and office environmental audits.</p> <p>The company has processes to optimise vessel energy efficiency.</p>	<p>Environmental related aspects are included in risk assessments.</p> <p>Environmental Impact Assessments are completed. Procedures related to environmental aspects are available and implemented onboard.</p> <p>Audits are conducted both in the office and onboard to monitor compliance with environmental processes, these can be combined with other audits, the frequency of audits should preferably not exceed 12 months</p> <p>Measures may include:- route optimisation, trim &amp; draft optimisation, power management, etc.</p>	<p>Verify if environmental Impact and risk assessments cover the range of operations of the company.</p> <p>Verify if audits cover environmental aspects including follow up.</p> <p>Review environmental incidents Waste management including receipts for waste landed</p> <p>Verification of energy efficiency procedures and records</p>



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Intermediate (Cont'd)	Appropriate levels of management and shore/ onboard personnel are assigned with relevant responsibilities.	Shore and onboard personnel acknowledge their responsibilities on environmental issues.	Records related to responsibilities to be available
Advanced	Goals and targets are set for environmental parameters. The company monitors effluents, emissions, waste reduction and energy conservation. The company has identified key personnel, who may be internal or external to the organisation, to provide advice on environmental related issues.	Goals and targets are set and monitored and discussed during management review meetings.  Access to key environmental SMEs.	Environmental goals and targets. Pollutant monitoring and reduction initiatives. Waste management and waste minimization plan Environmental KPIs, e.g., ballast non-conformities, CO2, NOx & SOx efficiency, releases to the environment, oil spills, contained spills, etc.



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Excellence	<p>The company has obtained ISO 14001 and/or ISO 50001 from an external provider.</p> <p>The company's management review the effectiveness of the environmental program and track action items to closure.</p> <p>The company utilises innovative technology to enhance environmental performance and energy efficiency</p>	<p>The company's adoption of these standards decreases environmental impacts, and increase energy efficiency. Management actively participate and review environmental programs and audits.</p> <p>Examples may include: - hull coatings, energy efficient fuels, improvements to hull efficiency, new propulsion concepts, main engine de-rating, real time performance monitoring.</p>	<p>Certification</p> <p>Management review Tracking/closure of action items from environmental audits</p> <p>Use of innovative technologies.</p>