



Subject Area no. 22 Risk assessment & management

Principle: The company has a programme to assess, prioritise and manage operating risks to prevent harm to people, damage to the environment and to achieve operational effectiveness.

Level	Expectations	Targets	Suggested objective evidence
Basic	<p>The safety management system (SMS) includes procedures to carry out risk assessments (RA's) for shipboard operations. The company has a process to ensure familiarisation of personnel with its risk assessment procedures.</p> <p>Risk assessment covers new, nonroutine and unplanned tasks.</p> <p>People, who conduct risk assessments, are trained to do so.</p> <p>Risk assessments are communicated to vessel staff and are implemented aboard</p>	<p>There is a documented risk management process to conduct risk assessments which includes methodology, risk matrix, scope, risk register or applicable process, adequate level of team composition and approval at appropriate levels consistent with risk.</p> <p>The company has a documented risk management process which should cover generic and specific operations. There is a documented process in place that addresses training requirements for risk assessors. There could be various levels of risk assessment training.</p> <p>Risk assessment should be communicated and cascaded to all crew and a process should be in place to ensure it is understood.</p> <p>Prevention and mitigation measures should be practical and validated with crew</p>	<p>Evidence of risk assessment process, quality of risk assessments, competence of team, consistent use of the process.</p> <p>Documented procedures, checklists and templates providing guidelines to the risk assessment process.</p> <p>Evidence of previous risk assessments carried out for generic and non- routine tasks.</p> <p>Documented process for training of risk assessors Documented training records</p>



Subject Area no. 22: Risk assessment & management			
Level	Expectations	Targets	Suggested objective evidence
Intermediate	<p>Control measures from risk assessments are effectively implemented during operations.</p> <p>Training is conducted as per procedures. Internal competency requirements have been established.</p>	<p>Risk assessments cover the entire range of operations deemed to have risk associated with the activity There is a process in place to ensure risk assessments are used as a living document i.e. discussed at tool-box meetings, safety meetings, etc. Risk severity ratings are consistent with the foreseeable hazards.</p> <p>Training of risk assessors meets industry standards</p>	<p>Evidence that risk assessment covers all activities with risks including but not limited to health, safety, security, environment, regulatory, etc.</p>



Subject Area no. 22: Risk assessment & management			
Level	Expectations	Targets	Suggested objective evidence
Advanced	<p>Risk assessments are reviewed at periodic intervals.</p> <p>The company has a process in place to verify risk control measures during vessel operations.</p> <p>The training and competence of risk assessors is refreshed periodically</p>	<p>There is a documented process that requires periodic review of risk assessments and updates to risk registers as appropriate. The reviews should include appropriate office and vessel personnel with approval from line management.</p> <p>There is a documented process to verify risk control measures are in place and is being used correctly (i.e., risk control verifications, active monitoring, etc.)</p> <p>Process in place to refresh risk assessment training</p>	<p>Evidence of periodic risk assessments and risk registers including implementation of any changes proposed.</p> <p>- evidence of review requirements found in document control procedures - risk assessments linked or cross-referenced to procedures and work instructions.</p> <p>Evidence of refresher in risk assessment training</p>



Subject Area no. 22: Risk assessment & management			
Level	Expectations	Targets	Suggested objective evidence
Excellence	<p>Appropriate levels of management approve risk assessments consistent with the risk level.</p> <p>Vessel crew have operations and support level personnel who are trained to lead risk assessments.</p> <p>Annual/periodic review of risk reduction/control measures and implementation.</p>	<p>There is a process to define various levels of risk. Higher risks are reviewed and signed off by appropriate levels of management. Process in place for key personnel on crew to lead a risk assessment (i.e. formal risk assessment training, experience in leading and participating in risk assessment, competence verification, etc.).</p> <p>There is an audit process in place to conduct periodic review of risk reduction control measures. Results from audits are reviewed by senior management</p>	<p>Evidence of defined risk levels with appropriate levels of management sign off. RAs linked or cross referenced to procedures and work instructions.</p> <p>Evidence of risk assessment leader training on vessel crew</p> <p>Annual/periodic review of risk assessments</p> <p>Evidence of review of findings. Evidence of procedure or work instruction revisions carried out due risk assessment findings.</p>