

# Course Syllabus

<b>Course Title:</b>	<b>ISM Code in Practice: From Certification to Effective Implementation</b>
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<b>Course Duration:</b>	<i>17 Hours</i>
<b>Course Difficulty:</b>	<i>Beginner</i>
<b>Course Category:</b>	<i>Management</i>

## Learning Outcomes

1. *Explain the purpose, structure, and regulatory basis of the ISM Code under SOLAS, including the role of the Document of Compliance (DOC) and Safety Management Certificate (SMC).*
2. *Distinguish between formal compliance (certification) and effective implementation of the Safety Management System in real operations.*
3. *Describe the roles, responsibilities, and authority of key personnel, including the Company, Designated Person Ashore (DPA), Master, and shipboard officers.*
4. *Demonstrate understanding of reporting lines, escalation procedures, and communication between ship and shore.*
5. *Identify objective evidence of SMS implementation, including records, crew knowledge, equipment condition, and operational practice.*
6. *Recognize common deficiencies and non-conformities identified during audits and Port State Control inspections, and understand their causes and consequences.*
7. *Apply SMS procedures to routine and emergency situations, including defect reporting, risk control, maintenance management, and emergency response.*
8. *Carry out basic verification checks of ISM certification and SMS effectiveness onboard.*
9. *Understand how internal audits, corrective actions, and management review contribute to continuous improvement of the SMS.*
10. *Respond appropriately to inspection scenarios, demonstrating awareness of compliance expectations and operational responsibilities.*

<b>References:</b>	<ul style="list-style-type: none"> <li>• ISM Code</li> <li>• IMO Codes/Conventions</li> </ul>	<ul style="list-style-type: none"> <li>• SOLAS</li> <li>• STCW</li> </ul>
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Course Subject	Time
<b>Chapter 1 ISM Reality</b> <ul style="list-style-type: none"> <li>• Certificates and enforcement</li> <li>• Context and Regulations</li> <li>• Port State Control and Enforcement</li> <li>• Major Nonconformities and Consequences</li> <li>• Effective Implementation in Practice</li> <li>• ISM Compliance Process</li> </ul>	1 Hour

<b>Chapter 2 Roles and Authority</b> <ul style="list-style-type: none"> <li>• Responsibilities and authority</li> <li>• The Company</li> <li>• Designated Person Ashore</li> <li>• Master’s Responsibility and Authority</li> <li>• Chief Officers and Engineers and Watch Officers</li> <li>• Procedures and Checklists</li> </ul>	1.5 Hour
<b>Chapter 3 SMS as a working system</b> <ul style="list-style-type: none"> <li>• Purpose of the SMS</li> <li>• Ship–Shore Interaction</li> <li>• Document Control</li> <li>• Accessibility and Usability</li> <li>• Integration of External</li> <li>• Common Failures</li> </ul>	1.5 Hour
<b>Chapter 4 Bridge Operational Control</b> <ul style="list-style-type: none"> <li>• Link Between Bridge Failures and SMS Failure</li> <li>• Ship–Shore Interface in Navigation Safety</li> <li>• Auditor and PSC Perspective</li> <li>• Passage Planning</li> <li>• ECDIS as a Safety System</li> <li>• Watchkeeping and Bridge Discipline</li> <li>• Pilotage and Bridge Team Integration</li> <li>• High-Risk Navigation</li> </ul>	1.5 Hour
<b>Chapter 5 Engine Department Operational Control</b> <ul style="list-style-type: none"> <li>• Link Between Machinery Failure and SMS Failure</li> <li>• Ship–Shore Interface in Technical Management</li> <li>• Auditor and PSC Perspective on Engine Operations</li> <li>• Change Management Onboard</li> <li>• Critical Systems and Emergency Readiness</li> <li>• Pollution Prevention and Environmental Compliance</li> <li>• Record Keeping and Integrity</li> </ul>	2.0 Hours
<b>Chapter 6 Risk Assessment and Hazard Control</b> <ul style="list-style-type: none"> <li>• Dynamic Risk Assessment</li> <li>• Hazard Identification</li> <li>• Job Safety Analysis</li> <li>• Verification of Control Measures</li> <li>• Near-Miss Reporting</li> <li>• Common Failures in Risk Assessment</li> </ul>	1.5 Hours
<b>Chapter 7 Maintenance, Critical Equipment, and Defect Management</b> <ul style="list-style-type: none"> <li>• Maintenance as a Safety Control</li> <li>• Critical Equipment</li> <li>• Defect Reporting and Interim Controls</li> <li>• Common Failures in Maintenance</li> <li>• Common Audit and PSC Red Flags</li> </ul>	1.0 Hour

<b>Chapter 8 Emergency Preparedness</b> <ul style="list-style-type: none"> <li>• Emergency Plans</li> <li>• Drill Design</li> <li>• Communications and Command Discipline</li> </ul>	1.0 Hour
<b>Chapter 9 Reporting and Investigation</b> <ul style="list-style-type: none"> <li>• The Purpose of Reporting</li> <li>• Types of Reports</li> <li>• Writing a Useful Nonconformity</li> <li>• Correction and Corrective Action</li> <li>• Root Cause Analysis</li> <li>• Near-Miss Reporting</li> <li>• Preservation of Evidence</li> <li>• Ship–Shore Reporting</li> </ul>	1.5 Hour
<b>Chapter 10 Interval Verification</b> <ul style="list-style-type: none"> <li>• Purpose of Internal Audits</li> <li>• Management Review</li> <li>• Shore Responsibilities</li> </ul>	1.5 Hour
<b>Chapter 11 External Audits and PSC Readiness</b> <ul style="list-style-type: none"> <li>• Evidence-Based Verification</li> <li>• Major Nonconformities and Certification Consequences</li> <li>• Audit-Ready Shipboard Behavior</li> <li>• Crew Competence</li> <li>• Common Audit and PSC Findings</li> </ul>	1.5 Hour
<b>Chapter 12 Human Element and Safety Culture</b> <ul style="list-style-type: none"> <li>• Just Culture Boundaries</li> <li>• Competence and Familiarization</li> <li>• Communication and Challenge Culture</li> <li>• Culture-Driven Casualties</li> <li>• Weak Safety Culture</li> </ul>	1.5 Hour
<b>Course Final Assessment</b>	1.0 Hour