



Marine Accident, Incident Investigation, and Risk Assessment



Course Description:

Safe operations are at the core of today's shipping industry, protecting lives, the marine environment, vessels, and cargo. A key element in achieving this is effective Risk Assessment, enabling ship staff to make informed decisions in hazardous situations.

This in-house course provides participants with a practical understanding of Risk Management principles and their application in real shipboard operations, aligned with the Company's procedures. It also covers Accident and Incident Investigation, including Root Cause Analysis, as part of a structured approach to continuous improvement. Completion of this training ensures compliance with SIRE 2.0 requirements.



Course Objectives:

- Gain a clear understanding of the core principles of Risk Management in shipboard operations.
- Learn to apply these principles effectively using the Company's Risk Management procedures and documentation.
- Develop the ability to conduct accident and incident investigations, identify root causes, and recommend preventive measures.



Course Contents:

Risk Management :

- Understanding Risk and its relevance to shipboard operations
- The Risk Management Process: Hazard Identification, Risk Analysis, and Risk Control
- Practical exercises using the Risk Matrix
- Company-specific Risk Assessment workshops

Incident Investigation & Root Cause Analysis:

- Purpose and process of marine incident investigation
- Legal requirements and use of company reporting forms
- Types of evidence: direct, documentary, and personal
- Root Cause Analysis methods: MSCAT, Five Whys, and Tree of Facts
- Developing corrective and preventive actions



Modules Covered:

- Purpose of Marine Incident Investigation
- Legal requirements for Risk Assessment and Incident Investigation
- Job-related and personal factors contributing to accidents
- Investigation techniques and tools
- Hazard identification and risk control
- Cost-benefit analysis of risk control options
- Real-life case studies and practical exercises



Certification:

- Certificate of Attendance issued upon successful completion of all tests and exercises.



Guidelines:

- STCW Code (Tables A-II/2 and A-III/2)
- IMO Model Course 3.11
- DNVGL M-SCAT Method
- MSC-MEPC.2/Circ.12/Rev.2
- Company-specific policies and SafeHub tools



Entry Standards:

- Masters
- Chief Officers
- Chief Engineers
- Second Engineers



Facilities:

- Virtual Classroom (via Zoom)



Assessment:

- Final Test



Course Duration:

- 4 days (4 hours per day, total 16 hours)



Teaching Method:

- Online lectures, interactive workshops, instructional videos, and facilitated discussions



Venue:

- This course is delivered online by the Company's Training Manager. For upcoming schedules, please contact the Training Department at crewtraining@zolarship.com