

# Training Course: Global Maritime Distress and Safety System (GMDSS)



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## Training Course: Global Maritime Distress and Safety System (GMDSS)

#### Introduction

In today Is maritime industry, effective communication and safety systems are fundamental for operational excellence and risk management. The Global Maritime Distress and Safety System GMDSS training course provides participants with comprehensive knowledge and advanced practical skills in maritime communication and emergency systems.

This course is designed for maritime officers, engineers, ship operators, and technical professionals seeking to strengthen their expertise in operating, maintaining, and managing GMDSS systems in compliance with international standards.

The 11-day intensive program combines theoretical depth and hands-on experience through simulations and real-world exercises to ensure participants gain professional proficiency in all aspects of maritime communication safety.

#### **Course Objectives**

- Develop a comprehensive understanding of the GMDSS framework and maritime communication systems.
- Master the operation and maintenance of GMDSS equipment and software.
- Understand maritime safety protocols and ensure regulatory compliance.
- Perform preventive maintenance and troubleshoot onboard communication systems.
- Gain hands-on experience in emergency coordination and response.
- Strengthen project management skills related to maritime communication systems.

#### Course Outline 11 Days

#### Day 1 - Introduction to GMDSS and Maritime Safety Protocols

- Overview of the Global Maritime Distress and Safety System.
- · Review of SOLAS and IMO conventions related to GMDSS.
- Understanding shipboard communication hierarchy and crew responsibilities.
- Risk assessment and emergency preparedness planning.

#### Day 2 - Overview of GMDSS Equipment

- Types of GMDSS equipment: VHF, MF/HF, NAVTEX, EPIRB, Inmarsat.
- Principles of operation for each communication system.
- · System integration and redundancy planning.

#### Day 3 - Radio Communication Systems

- Operating procedures for VHF and MF/HF radios.
- Safety communication protocols and emergency message handling.
- Practical exercises using onboard radio simulators.

#### Day 4 - Satellite Communication Systems





- Inmarsat and other maritime satellite systems.
- Integration of satellite communication with shipboard GMDSS operations.
- Hands-on practice using satellite communication terminals.

#### Day 5 - Maintenance and Troubleshooting Part 1

- Preventive maintenance procedures for GMDSS systems.
- Identifying common system faults and troubleshooting techniques.
- Practical exercises in diagnosing and resolving communication issues.

#### Day 6 - Maintenance and Troubleshooting Part 2

- · Advanced repair strategies for radios and EPIRBs.
- Performance verification and compliance testing.
- Simulated real-world troubleshooting under emergency conditions.

#### Day 7 - Emergency Procedures and Response Coordination

- · Conducting onboard emergency drills.
- Coordinating distress signals and maritime rescue operations.
- Case studies of maritime emergency incidents.

#### Day 8 - Maritime Regulations and Compliance

- In-depth study of SOLAS, ITU, and IMO regulatory frameworks.
- Documentation, auditing, and reporting for GMDSS compliance.
- Ensuring crew readiness and adherence to international standards.

#### Day 9 - Project Management for Maritime Communication Systems

- Planning and executing maritime communication infrastructure projects.
- Conducting risk assessments, budgeting, and scheduling.
- Integrating GMDSS systems into overall shipboard operations.

#### Day 10 - Integrated Practical Exercises

- Full-scale simulation of emergency response scenarios.
- · Coordinated the operation of all GMDSS equipment.
- Team-based exercises to apply theoretical knowledge in practice.

#### Day 11 - Final Assessment and Certification

- Written and practical assessment of knowledge and skills acquired.
- Review of best practices and operational excellence principles.
- Awarding of official course completion certificates.

#### Why Attend This Course? Wins & Losses!

Gain intensive, hands-on experience in maritime communication and safety system

· Learn skills that can be immediately applied on vessels or in maritime operations centers



- Build leadership and project management capabilities for maritime communication operations.
- Enhance career advancement opportunities through GMDSS certification.
- Learn from internationally experienced maritime professionals.
- Improve your organization soperational safety and communication reliability.
- Reduce risks through effective emergency response coordination.

#### Conclusion

By the end of this 11-day GMDSS training course, participants will have developed advanced technical and operational competence to manage maritime communication and distress systems effectively.

Graduates will be fully capable of leading emergency responses, maintaining compliance with global maritime standards, and enhancing operational safety and reliability at sea. This program represents a strategic investment in professional maritime excellence, equipping participants with the expertise required for modern maritime communication management.





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