

TRAINING TITLE

MARINE SAFETY SYSTEMS AND EQUIPMENT MAINTENANCE

Training Duration

5 day

Training Venue and Dates

Ref. No. SM099	Marine Safety Systems and Equipment Maintenance	5	18-22 Aug. 2025	\$5,500	DUBAI, UAE
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

- \$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

This 5-day course is designed to equip maritime professionals with the essential skills and knowledge to maintain and ensure the safety and operational efficiency of marine safety systems and equipment. Participants will learn the importance of key safety systems on vessels, including life-saving equipment, fire suppression systems, navigation aids, and emergency alarms. Through the course, participants will gain the competence to carry out routine inspections, maintenance, and troubleshooting of safety equipment, ensuring compliance with maritime safety regulations.

TRAINING OBJECTIVES

By the end of this 5-day course, participants will have gained the practical and theoretical knowledge required to effectively maintain, troubleshoot, and operate marine safety systems and equipment, ensuring they are prepared for any maritime emergency situation.

WHO SHOULD ATTEND?

- Maritime professionals (crew members, engineers, safety officers) responsible for maintaining safety equipment
- Individuals pursuing a career in the maritime industry or seeking certification in marine safety maintenance

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- Marine safety officers, ship captains, and technical staff responsible for emergency preparedness

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

COURSE PROGRAM:

Day 1: Introduction to Marine Safety Systems and Regulations

- Overview of Marine Safety Systems:
 - Introduction to the role of safety systems on vessels
 - Key systems: Life-saving appliances (LSA), fire safety, navigation, communication, and alarms
 - Importance of maintaining these systems for the safety of the crew, passengers, and the ship
- International Maritime Safety Regulations:
 - International Maritime Organization (IMO) and SOLAS (Safety of Life at Sea) regulations
 - Maritime safety compliance standards and inspections
 - Role of safety drills and emergency preparedness
- Introduction to Common Marine Safety Equipment:
 - Life rafts, lifeboats, life jackets, and immersion suits
 - Fire extinguishers, fire alarms, and fire detection systems
 - Distress signals, first aid kits, and communication devices

Day 2: Life-Saving Appliances (LSA) and Fire Safety Equipment

- Life-Saving Appliances (LSA):

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- Detailed review of life rafts, life jackets, and lifeboats: functions, components, and maintenance requirements
- Inspection and servicing of life-saving equipment
- Proper stowage and accessibility of life-saving appliances
- **Fire Safety Systems:**
 - Fire extinguishers, fire hoses, fire pumps, and fixed fire-fighting systems
 - Inspection, testing, and maintenance of fire suppression equipment
 - Procedures for checking CO2 systems and fire alarm systems

Day 3: Emergency Alarm Systems and Communication Equipment

- **Emergency Alarm Systems:**
 - Overview of shipboard emergency alarm systems: General Alarm, Muster Stations, and Emergency Communication
 - Understanding different types of alarms: audio, visual, and manual systems
 - Testing and troubleshooting emergency alarm systems to ensure proper functionality
- **Marine Communication Systems:**
 - VHF radios, satellite communication, distress signals (e.g., EPIRBs, SARTs)
 - Maintenance of communication equipment and checks to ensure readiness
 - Procedures for emergency communication and distress signaling

Day 4: Routine Inspections, Maintenance, and Troubleshooting

- **Routine Inspections and Preventive Maintenance:**
 - Creating a maintenance schedule for safety systems and equipment
 - Procedures for performing regular checks on fire safety, life-saving appliances, and alarms
 - Documentation of inspections and maintenance for regulatory compliance
- **Troubleshooting Common Safety Equipment Issues:**
 - Identifying and resolving common faults with life-saving appliances and fire safety systems
 - Basic troubleshooting techniques for communication systems (VHF, EPIRBs)
 - Reporting and addressing safety equipment malfunctions or failures
- **Maintenance and Troubleshooting:**
 - Conducting routine maintenance on various safety equipment (life jackets, fire extinguishers)

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- Diagnosing and troubleshooting issues with life-saving appliances, fire systems, and communication devices
- Simulating real-life emergency scenarios to assess equipment readiness

Day 5: Advanced Topics, Emergency Drills, and Certification

- **Advanced Marine Safety Equipment:**
 - Introduction to advanced safety equipment: AIS (Automatic Identification Systems), GPS, and radar systems for navigation safety
 - Overview of special emergency scenarios (man overboard, abandon ship) and the role of advanced safety systems
 - Regular calibration and testing of advanced systems to ensure accuracy and effectiveness
- **Emergency Drills and Response:**
 - Importance of regular emergency drills and crew preparedness
 - Coordinating emergency evacuation and life-saving operations
 - Best practices for dealing with marine emergencies
- **Certification Assessment:**
 - Final evaluation of participants' ability to operate and maintain safety systems
 - Q&A session to clarify any remaining questions
 - Awarding of certificates upon successful completion of the course

NOTE:

Pre-& Post Tests will be conducted.

Case Studies, Group Exercises, Group Discussions, Last Day reviews, and assessments will be carried out.

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P.O BOX 45304
ABU DHABI, U.A.E

T +971 2 6264455
F +971 2 6275344

www.definetraining.com