

# OILY WATER SEPARATOR (OWS) - CONSTRUCTION, WORKING PRINCIPLE & TROUBLESHOOTING (MARINE / MARITIME)

*"Master the Skills to Operate, Maintain, and Troubleshoot Oily Water Separators in Marine Vessels"*

## Schedule

Date	Venue	Fees (Face-to-Face)
09 - 10 Sep 2026	Dubai, UAE	USD 1995 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

## Introduction

The Oily Water Separator (OWS) - Construction, Working Principle & Troubleshooting course is designed for marine engineers, officers, and maintenance personnel who are responsible for the operation, maintenance, and troubleshooting of oily water separators on board vessels. The course provides comprehensive insights into the construction, working principles, and regulatory requirements of OWS systems, which are crucial for ensuring that discharged water meets the international maritime pollution standards.

Participants will be guided through the key components, functions, and troubleshooting techniques of the Oily Water Separator, enabling them to understand its role in preventing marine pollution and ensuring compliance with MARPOL regulations. The course combines theory with hands-on practical sessions to equip participants with the skills needed to operate and maintain OWS systems effectively.

## Objectives

By the end of this course, participants will be able to:

- Understand the construction and working principles of Oily Water Separator systems.
- Operate and maintain OWS systems according to international maritime standards.
- Troubleshoot and diagnose common issues with Oily Water Separators.
- Ensure compliance with MARPOL Annex I regulations for oily water discharge.
- Conduct routine maintenance and performance checks for OWS systems.

## Why Attend

- Gain in-depth knowledge of the Oily Water Separator's components and functions.
- Learn how to operate and maintain OWS systems to meet regulatory standards.
- Develop troubleshooting skills for common OWS problems and malfunctions.
- Enhance your ability to ensure compliance with maritime environmental regulations.
- Improve the overall efficiency and reliability of your vessel's OWS system.

## Target Audience

This program is designed for:

- Marine engineers and maintenance personnel.
- Deck officers and crew responsible for the operation of OWS systems.
- Environmental officers ensuring compliance with maritime pollution control regulations.
- Anyone involved in the maintenance and operation of Oily Water Separators on board vessels.

## Individual Benefits

Key competencies that will be developed include:

- Expertise in the construction and working principles of OWS systems.
- Practical skills for operating and troubleshooting Oily Water Separators.
- Ability to maintain OWS systems and optimize their performance.
- In-depth knowledge of MARPOL regulations and compliance practices.
- Proficiency in identifying and resolving common operational issues with OWS.

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Enhanced operational efficiency and reduced downtime of OWS systems.
- Ability to perform thorough troubleshooting and maintenance of OWS systems.
- Increased compliance with environmental regulations and reduced risk of pollution incidents.
- Improved vessel operations by ensuring the reliability and effectiveness of Oily Water Separators.
- Strengthened environmental management practices on board vessels.

## Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Overview of Oily Water Separator components, working principles, and regulations.
- Case Studies - Real-world examples of OWS failures, troubleshooting, and best practices.
- Workshops - Hands-on exercises in diagnosing and fixing common OWS issues.
- Peer Exchange - Group discussions on challenges faced in OWS operations and maintenance.
- Tools - Operational checklists and maintenance guides for Oily Water Separators.

## Course Outline

Detailed 2-Day Course Outline

**Training Hours:** 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

### Day 1: Introduction to Oily Water Separator Systems

- Module 1: Overview of Oily Water Separator Construction (07:30 – 09:30)
  - Key components and functioning of the Oily Water Separator system.
  - Understanding the physical principles behind oily water separation.
  - Design specifications and types of Oily Water Separators.
- Module 2: Working Principles of Oily Water Separators (09:30 – 11:30)
  - Step-by-step process of oily water separation in the system.
  - Role of filtration, gravity, and centrifugation in separating oil from water.
  - MARPOL regulations and environmental standards for oily water discharge.

### Day 2: Troubleshooting and Maintenance of Oily Water Separators

- Module 3: Troubleshooting Common OWS Issues (07:30 – 09:30)
  - Diagnosing mechanical and operational issues in Oily Water Separators.
  - Techniques for fixing common malfunctions (e.g., poor separation, clogging).
  - Preventive maintenance practices to avoid system failure.
- Module 4: Routine Maintenance and Compliance Checks (09:30 – 11:30)
  - Best practices for routine maintenance and performance monitoring.
  - Regulatory requirements for OWS operation and discharge monitoring.
  - Maintaining system efficiency and ensuring compliance with MARPOL Annex I.

## Certification

Participants will receive a Certificate of Completion in Oily Water Separator Operations and Maintenance, validating their ability to operate, maintain, and troubleshoot Oily Water Separators according to maritime standards.

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