

“ENVIRONMENTAL COMPLIANCE ENVIRONMENTAL MANAGEMENT SYSTEM” TRAINING COURSE

A. OVERALL AIM

The overall aim of the Training Course is to help the participating Deck and Engine Officers to obtain the necessary knowledge to effectively comply with the applicable requirements of MARPOL 73/78 and other International Conventions and Regulations.

It has been designed according to the **IMO Model Course 1.38 “Marine Environmental Awareness” 2011**, to present the most important operational requirements of all MARPOL 73/78 Annexes, the International Convention on Ballast Water Management, the US EPA Vessel General Permit and the Hong Kong Ship Recycling Convention, as well as, the basic principles of the ISO 14001 Environmental Management System.



B. LEARNING OBJECTIVES

The Trainees, on completing the course, will be able to:

- Fully understand the permissible discharges and emissions according to MARPOL 73/78 and other International Conventions.
- Effectively comply with the pollution prevention requirements, and observe the required procedures of the company for monitoring the respective shipboard operations.

C. STCW COMPETENCES PROMOTED BY THE TRAINING COURSE



Sections A-II/-1, A-III/1 and A-III/6

Competence: Ensuring compliance with pollution prevention requirements under the Function “Controlling the operation of the ship and care for persons onboard at the Operational Level.

Chapter VI

Competence: Take Precautions to prevent pollution of the marine environment, as part of the basic safety training of Chapter VI.

D. TIMETABLE

TIMES	DAY ONE
09:30 – 09:45	Introduction – Learning Objectives
09:45 – 11:00	1. MARPOL ANNEX I - OIL
	<ul style="list-style-type: none"> • Structure of the Annex I - Surveys and IOPP Certificate • Permissible Discharges from Machinery Spaces <ul style="list-style-type: none"> • Oil-Water Separating Equipment • Permissible Discharges, • Management of Oil-Bilge Water, Critical Spares • Sludge/Waste Oil Handling
11:00 – 11:15	<i>Coffee Break</i>
11:15 – 13:00	<ul style="list-style-type: none"> • EMS Operational Requirements – Local Regulations • Permissible Discharges from Cargo Tanks <ul style="list-style-type: none"> • ODME Principles of Operation • Discharge of Tank Washings/Dirty Ballast
13:00 – 13:45	<i>Lunch Break</i>
13:45 - 14:30	2. MARPOL ANNEX II – NOXIOUS LIQUID SUBSTANCES
	<ul style="list-style-type: none"> • Introduction to Annex II and the IBC Code • NLS Categorization, Certificate of Fitness • Permissible Discharges

TIMES	DAY ONE
14:30 – 16:00	3. MARPOL ANNEX IV - SEWAGE
	<ul style="list-style-type: none"> • Basic Regulations - Permissible Discharges • Operation/Maintenance of Sewage Treatment Plant • EMS Operational Requirements – Local Regulations
16:00 – 16:15	<i>Coffee Break</i>
16:15 – 17:30	4. MARPOL ANNEX V - GARBAGE
	<ul style="list-style-type: none"> • Basic Regulations, Categories of Garbage, Permissible Discharges • Implementation of Garbage Management Plan • Waste Handling Equipment (Incinerator, Compactors) • EMS Operational Requirements – Local Regulations

TIMES	DAY TWO
09:30 – 11:00	5. MARPOL ANNEX VI – AIR EMISSIONS
	<ul style="list-style-type: none"> • Structure of Annex VI – Surveys and Certificates • Refrigerants • SOx and NOx Emissions • VOC Management Plant • Incineration • EMS Operational Requirements
11:00 – 11:15	<i>Coffee Break</i>
11:15 – 13:00	6. INT. BALLAST WATER MANAGEMENT CONVENTION
	<ul style="list-style-type: none"> • International and USCG Regulations/Standards • Ballast Water Management Plan – BWE • Introduction to Ballast Water Treatment Systems • Contingency Measures for Ballast Water Management – Case Studies
13:00 – 13:45	<i>Lunch Break</i>
13:45 – 14:45	7. SHIP RECYCLING
	<ul style="list-style-type: none"> • HK Convention and EU Regulation on Ship Recycling • IHM Development and Maintenance • EMS Operational Requirements – MM Policies - Documentation
14:45 – 15:15	8. UNDERWATER NOISE & OTHER ENVIRONMENTAL CHALLENGES
	<ul style="list-style-type: none"> • Introduction to the Underwater Noise – Guidance
15:15 – 15:30	<i>Coffee Break</i>
15:30 – 16:30	9. ISO 14001 – ENVIRONMENTAL MANAGEMENT
	<ul style="list-style-type: none"> • Environmental Risk Management – Aspects and Objectives
16:30 – 17:30	10. US/EPA VESSEL GENERAL PERMIT (VGP) REQUIREMENTS