

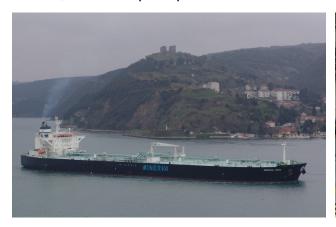


"ENVIRONMENTAL COMPLIANCE ENVIRONMENTAL MANAGEMENT SYSTEM" TRAINING COURSE

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
	1. MARPOL ANNEX I - OIL
	Structure of the Annex I - Surveys and IOPP Certificate
09:45 – 11:00	Permissible Discharges from Machinery Spaces
	Oil-Water Separating Equipment
	Permissible Discharges,
	Management of Oil-Bilge Water, Critical Spares
	Sludge/Waste Oil Handling
11:00 – 11:15	Coffee Break
	EMS Operational Requirements – Local Regulations
11:15 – 13:00	Permissible Discharges from Cargo Tanks
	ODME Principles of Operation Discharge of Tank Weshings (District Pallact)
	Discharge of Tank Washings/Dirty Ballast
13:00 – 13:45	Lunch Break
	2. MARPOL ANNEX II – NOXIOUS LIQUID SUBSTANCES
	Introduction to Annex II and the IBC Code
13:45 - 14:30	NLS Categorization, Certificate of Fitness
	Permissible Discharges





TIMES	DAY ONE
14:30 – 16:00	3. MARPOL ANNEX IV - SEWAGE
	Basic Regulations - Permissible Discharges
	Operation/Maintenance of Sewage Treatment Plant
	EMS Operational Requirements – Local Regulations
16:00 – 16:15	Coffee Break
16:15 – 17:30	4. MARPOL ANNEX V - GARBAGE
	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
	5. MARPOL ANNEX VI – AIR EMISSIONS
	Structure of Annex VI – Surveys and Certificates
	Refrigerants
09:30 – 11:00	SOx and NOx Emissions
	VOC Management Plant
	Incineration
	EMS Operational Requirements
11:00 – 11:15	Coffee Break
	6. INT. BALLAST WATER MANAGEMENT CONVENTION
	International and USCG Regulations/Standards
11:15 – 13:00	Ballast Water Management Plan – BWE
	Introduction to Ballast Water Treatment Systems
	Contingency Measures for Ballast Water Management – Case Studies
13:00 – 13:45	Lunch Break
	7. SHIP RECYCLING
	HK Convention and EU Regulation on Ship Recycling
	IHM Development and Maintenance
13:45 – 14:45	EMS Operational Requirements – MM Policies - Documentation
14:45 – 15:15	8. UNDERWATER NOISE & OTHER ENVIRONMENTAL CHALLENGES
	Introduction to the Underwater Noise – Guidance
15:15 – 15:30	Coffee Break
15:30 – 16:30	9. ISO 14001 - ENVIRONMENTAL MANAGEMENT
	Environmental Risk Management – Aspects and Objectives
16:30 – 17:30	10. US/EPA VESSEL GENERAL PERMIT (VGP) REQUIREMENTS

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