

# Basic Oil Tanker Safety and Technical Inspection Skills

## For Oil Terminal Inspectors



**Course conducted by**  
**Institute of Maritime Education & Training**

## **AN INTRODUCTORY QUALIFICATION FOR TANK VESSEL INSPECTIONS AT A MARINE TERMINAL**

### **Introduction:**

In 2006, the average age of the oil tankers in service was around 11 years and yet more than 65% of accidents were recorded on tankers built in 1990's and 2000's. The rise in substandard shipping, growing numbers of tanker incidents and associated claims, all underscore the need for a better and improved method of inspections, even as the vessel may be performing cargo operations at an oil terminal.

Improving the quality of vessel inspections is an attainable goal and something that every terminal operator would like to achieve in the shortest of possible time frames. With millions of dollars worth of equipment and national assets at risk from a third-party vessel entering the terminal, this course shall assist the operators in setting up a suitable barrier towards mitigating such risks and resulting in a smoother and safer operation.

Understanding and conducting meaningful inspections to better manage safety at the berth, remove or reduce sub-standard ships from entering the terminal and improving the safety records is a cornerstone achievement from this course. Added value is obtained through conducting mock or guided inspections on board a ship operating at a terminal (subject to vessel availability and terminal permission)

### **Course Aim:**

IMETA introduces this basic oil tanker safety and technical inspections skills course for the terminal inspectors and operations staff. As a part of their daily duties at an oil terminal, this course shall aim to prepare the marine and non-marine staff towards getting a better understanding of the issues concerning safety and technical operations performed by an oil tanker whilst at the terminal.

Collaborators and approving authorities for our programmes:



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This added knowledge will ultimately assist the operators in being able to better watch over the activities of the ship, conduct inspections leading not only towards safer and smoother operations but also recognition and elimination of sub-standard shipping coming alongside and risking safety at the terminal.

### **Course Objectives:**

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

- Know the basic hazards of oil carriage and transfer at a terminal
- Understand the basic shipboard machineries and equipment on board a tanker
- Recognize the safety and technical aspects of a ship/shore interface
- Understand the basics of carrying out a shipboard inspection – vessel hardware and equipment, certification, safety & technical routines, assessment of crew etc.
- Manage the audit and inspection of a vessel – basic auditing skills
- Conduct guided and mock inspections on board vessels at the terminal

### **Course Content:**

The main topics that will be covered in this course are:

- Properties and basic hazards of petroleum and its products.
- Certificates and Documentation carried on an oil tanker e.g. Class and Flag certificates, their validity.
- Manning level and qualification requirements.
- General housekeeping and fabric condition of the ship.
- Cargo and ballast machinery and equipment e.g. Inert Gas Systems, Pumps and associated cargo machinery.
- Pollution prevention equipment and procedures.
- Mooring equipment and condition.

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- Engine room and steering compartment – equipment and condition.
- Ship and Shore communication interface.
- Basic auditing skills and behaviours.
- Prepare for and conduct an audit.
- Mock or shipboard real audits – practice sessions.

### **Training Methodology:**

- Lectures
- Case Studies
- Group Discussions
- Mock or real audits

### **Who Should Attend?**

- Terminal Loading Masters
- Terminal Marine Safety Operators
- Office staff (as nominated)

### **Course Duration:**

3+1 days

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