

SHIP HANDLING AND PILOTAGE SIMULATION COURSE

MAR005

COURSE DESCRIPTION

Ship Handling can be described as an art form, of which only the basic theory can be taught, and the skill must then be learned during many years of practice. Indeed, many ships Pilots insist that they continue learning the art until the day they retire. This course is an opportunity to enhance ship handling knowledge through lectures, sharing and discussions.

COURSE GOAL

To enhance the participants' knowledge, skills, and abilities necessary to understand port marine safety and regulations, maritime security, hydro graphic as well as to understand functions and services, pilotage and tug services with PSA pilots.

COURSE OBJECTIVES

By the end of this course the participant will be able to:

- Understand different types of vessels and their handling characteristics
- Determine the effects of different types of propulsion and rudders
- Understand vessel's pivot point
- Use transit marks in ship handling
- Use thrusters and different types of tugs in ship handling
- Anchor and use of anchors under various conditions
- Apply berthing and unberthing methodology
- Manage speed
- Deal with all environmental effects
- Understand how to manage crisis and apply emergency procedures
- Pilot in various Port waters.

WHO CAN BENEFIT

- Marine Pilots
- Harbor Masters
- Port Marine Officers

COURSE DURATION

5 working days.

COURSE OUTLINE

1. Ship Behavior

- Different types of vessels and their handling characteristics
- Effects of different types of propulsion and rudders
- Understanding a vessel's pivot point
- Use of transit marks in ship handling
- Use of thrusters and different types of tugs in ship handling
- Anchoring and use of anchors under various conditions
- Berthing and unberthing methodology
- Speed management

2. Environmental effects

- Wind and current
- Banks, channels and shallow water
- Interaction
- Pilotage Best Practices
- Master-pilot relationship
- Information exchange
- Pilotage communication
- Marine vocabulary

3. Shipboard Crisis Management and Emergency procedures

4. Piloting in Various Port Waters.

5. Ship Handling and Pilotage under Different Environmental Conditions

- Developing maneuvering plans and execution
- Situation awareness
- Speed management
- Transit marks and their applications in ship handling
- Mooring Line Management
- Anchoring in congested anchorages
- Berthing and unberthing in open berths, terminals and confined basins
- Piloting in shipyards, towing, entering and leaving docks
- Piloting different types and sizes of vessels