

80 Hour Advanced Shiphandling

COURSE DESCRIPTION

This course is intended to meet specific international and domestic requirements for a candidate seeking certification as master and/or chief mate of ships 500 gross tons or more. Subject matter includes the proper relationship between engines and helm for ship maneuvering; and, the effects on ship behavior caused by wind, current, shallow water, banks, narrow channels and conditions of loading. Everything is reinforced by practical application exercises performed on the bridge and bridge wing simulators.

The course is designed around major ship maneuvering evolutions: traffic situations, arrival/departure, anchoring, and maneuvering in channels. Programs can be tailored to specific shipping company operations, vessels and ports.

COURSE APPROVAL

This is a USCG approved course. The person successfully completing this course will have successfully demonstrated:

(1) STCW Navigation at the Management Level competencies (Table A-II/2);

- *Maneuver and Handle a Ship in All Conditions*; and
- *Co-ordinate Search and Rescue Operations*
- *Respond to Navigational Emergencies*, and

(2) the following assessments reflected in the National Assessment Guidelines: M-3-1A, M-7-1A, M-7-2A, M-7-3A, M-7-3B, M-7-4A, M-7-5A, M-8-1A, M-8-2A, M-8-3A, M-8-4A, M-8-5A, M-8-6A, M-8-7A, M-8-8A, and M-8-9A.

COURSE SCHEDULE

	Day 1	Day 2	Day 3	Day 4	Day 5
MORNING	Introductions	Exercise # 2 Ship Handling in Restricted Waters	Rescue Boat and Survival Craft	Exercise #5 In Port Shift	Exercise # 7 Interaction
	Constant Rate of Turn Technique		Berthing and Unberthing		
	Use of Propulsion and Maneuvering Systems		Damage due to own ship's bow and stern waves		Maneuvering in TSS and VTS
	Ship Handling in Restricted Waters				
AFTERNOON	Ship Handling in Restricted Waters	Exercise #1 Navigating in or near ice	Exercise # 4 Ship Handling in Restricted Waters	Interaction	Exercise 8 Dredging the Anchor
	Navigating in or near ice			Exercise 6 Berthing and Unberthing	
	Maneuvering and Propulsion Characteristics	Berthing and Unberthing			Approaching the Pilot Vessel
	Day 6	Day 7	Day 8	Day 9	Day 10
MORNING	Berthing and Unberthing	Anchoring	Heavy Weather Shiphandling	Emergency Steering	Heavy Weather Shiphandling
	Exercise # 9 Approaching the Pilot Station	Exercise # 11 Imminent Grounding		Assessment of Damage Control	Precautions when Beaching a Ship
	Refloating a Grounded Ship		Drydocking	Navigating in or near Ice	Emergency Towing: Arrangements and Procedures
AFTERNOON	Berthing and Unberthing	Exercise # 10 Anchoring	Exercise # 12 Constant Rate Turn	Coordinate Search & Rescue	Exam
	Maneuvering in Shallow Water		Imminent Collision		Exam Review/Course Critique

COURSE REQUIREMENTS

Trainees should have a minimum of six months watchkeeping experience as officer in charge of a navigation watch. A written examination is given on the last day of the course. An end of course evaluation will document student performance in meeting the objectives of the course.

MARITIME SIMULATION INSTITUTE

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