

FUNDAMENTAL OF COASTAL NAVIGATION RULE OF THE ROAD AND CHART WORK

MAR004

COURSE DESCRIPTION

Knowing a few simple rules will help you stay safe on the water. Since there are so many different types of boats, boating activities and styles of boating, it is important to know what to expect when you come upon another vessel and what your obligations are. The term "vessel" includes anything that floats on the water that is used or is capable of being used as a means of transportation on water. Therefore, practically everything you encounter on the water is considered a vessel and as such, must know, understand and abide by the Navigation Rules. The Navigation Rules cover steering rules akin to rules of the road, sound signaling equipment and requirements, and a section on navigation lights. This course covers the topics related to coastal navigation rule of the road and chart work.

COURSE GOAL

To enhance the participants' knowledge, skills, and abilities necessary to safely navigate a boat by day and by night in coastal waters with which they are familiar.

COURSE OBJECTIVES

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

- Understand Weather conditions
- Determine Sources of weather forecasts
- Explain the significance of commonly used terms in marine forecasts.
- Identify the significance of common weather patterns illustrated on synoptic chart
- Read a chart or map using topographical features, navigation marks and / or a compass.
- Describe the effects of compass deviation and variation.
- Use transits to fix position and hold a course.
- Use Navigation equipment:
- Understand how to Enter and depart a harbor.
- Obtain the information needed to devise a passage plan.
- Accurately predict how much fuel you will need.
- Determine The effect tides can have on his powerboating activities.
- Apply Tidal heights and rates of flow for any port when planning activities.
- Identify the type, aspect and behavior of vessels by day and by night from navigation
- Identify the correct navigation lights and day shapes.

- Understand and use maneuvering (sound) signals.
- Correctly use of radio, sound and visual communications in emergency situations
- Know In what circumstances should request assistance
- Manage a medical emergency afloat.
- Be familiar with Causes, symptoms & remedies for Hypothermia, Sea sickness, Sun stroke, Dehydration

WHO CAN BENEFIT

- Marine Pilots
- Harbor Masters
- Port Marine Officers
- Marine Crew Members
- Tug Masters

COURSE DURATION

5 working days.

COURSE OUTLINE

1. Weather

- Weather Conditions
- Sources of Weather Forecasts
- Forecasting about Planned Activities
- Commonly Used Terms in Marine Forecasts.
- Common Weather Patterns Illustrated on Synoptic Chart

2. Navigation

- Topographical Features, Navigation Marks and / or a Compass.
- Identifying Features, including Hazards, from a Chart.
- Identifying Positions on the Chart.
- Identifying Distances from the Chart and Accurately Predict Expected Progress.
- The Effects of Compass Deviation and Variation.
- Using Transits to Fix Position and Hold a Course.
- Plotting a Course to Steer, Taking Account of the Effects of Wind & Current.
- Navigation Equipment:
 - GPS
 - Electronic Chart Plotter

- Radar
- Depth Sounder
- Compass
- ECDIS Knowledge
- Marks Used in IALA A Buoyage System and Describe their Significance and Identifying These Buoys at Night.

3. Passage Planning

- A Coastal Passage by Day
- A Coastal Passage by Night
- Entering and Departing from a Harbor.
- The Information Needed to Devise a Passage Plan.
- Program a Passage Plan into a GPS Set.
- Predicting How Much Fuel is Needed

4. Coastal Knowledge

- The Effect Tides can Have on Powerboating Activities.
- Relevant Tidal Information on Charts and in Almanacs.
- Tidal Heights and Rates of Flow for Any Port and Apply these when Planning Activities.

5. Application of "Rules of the Road"

- Identifying the Type, Aspect and Behavior of Vessels by Day and by Night from Navigation
- Lights and Day Shapes.
- The Correct Navigation Lights and Day Shapes.
- Maneuvering (Sound) Signals.

6. Safety

- When and How to Summon Assistance.
 - Correct Use of Radio, Sound and Visual Communications in Emergency Situations Including VHF Radio, Distress Flares, Mobile Phones Hand Signals and Sound Signals.
 - In What Circumstances should Request Assistance
- Managing a Medical Emergency Afloat.
- Causes, Symptoms & Remedies for;
 - Hypothermia
 - Sea sickness
 - Sun stroke
 - Dehydration