

## **COLLISION AVOIDANCE (Draft 2: 6/12)**

Goal: The purpose of this training is to provide information and skills to prevent collisions and minimize the risk to people and vessels.

Objectives: After successful completion of the Collision Avoidance course, participants should be able to:

1. Identify the inherent responsibility and accountability of being Master, Mate and/or bridge watchstander on any vessel.
2. State that there is no legally acceptable excuse for not adhering to the Navigation Rules.
3. Recognize all navigation rules, with special emphasis on the fishing vessel COLREGS. (very broad objective; perhaps see 11-21 below for more specifics)
4. Apply basic plotting skills so as to establish Closest Point of Approach (CPA) and right of way determination ability.
5. List at least three equipment, reference materials, and instruments available to the navigator.
6. Read and interpret a nautical chart including symbols, information depicted, latitude and longitude and correction procedures.
7. Develop a voyage plan.
8. Demonstrate basic navigation skills, including plotting LOPs (lines of position) (visual and electronic), ranges (radar and terrestrial), laying courses, determination of ETA and set and drift, and determining compensation for set and drift.
9. Demonstrate the ability to use communication equipment to avoid a collision.
10. Identify the essential navigation publications, including:
  - a. American Practical Navigator, Bowditch
  - b. U.S. Coast Pilot for area of operation
  - c. Light List for area of operation
  - d. Chart No. 1
  - e. Atlas of Pilot Charts
  - f. Tidal Current Tables for area of operation
  - g. Navigation Rules: International-Inland
  - h. Paper navigation charts of an appropriate scale for area of operation, corrected up to date by Notice to Mariners
11. Identify at least six types of vessels from their navigation lights.
12. Identify at least five different types of navigation markers and their meaning.
13. State at least three responsibilities of vessel operators.
14. Determine the “stand on” and “give-way” vessel when presented with a diagram or simulation of vessel traffic.
15. Determine the collision avoidance responsibility of each vessel when presented with a diagram or simulation of vessel traffic.
16. Select the appropriate safe passage to use when steering a simulated course through a set of navigation markers.
17. State at least two rules to navigating in narrow channels.

18. Identify at least twelve features of a nautical chart.
19. Use parallel rulers and a chart to plot a course and determine speed and distance.
20. Identify at least three types of sound signals and their meaning.
21. Determine position using GPS as well as magnetic bearings and chart.

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