

What you'll learn:

1) How to read and use a marine chart. The lessons will focus on

- The difference between charts and maps
- Topographic map symbols
- Chart projections
- Latitude and longitude
- Scale
- Measuring distance
- Reporting your position
- Marine chart symbols
- Depths and depth contours
- Heights and height contours
- The intertidal zone
- Hazard symbols
- Special areas and boundaries
- Aids to navigation

2) Practical navigation techniques. The lesson will focus on

- Basic piloting
- Effect of wind on speed
- Checkpoints
- Handrailing
- Backstops
- Aiming off
- Range and line of position
- The narrative of navigation
- The circles of possibility

3) Advanced practical navigation techniques. The lessons will focus on

- Vectors and calculating the effects of currents on speed
- Rule of 60 and the small angle rule
- Tools for judging distance

4) Collision Regulations. The lessons will focus on

- The 3R's for avoiding a collision
- Navigation Lights
- Canadian collision regulations
- Vessel Traffic Services
- Ships whistles and horns

5) Navigating with a compass and electronic navigation. The lessons will focus on

- The marine compass
- The orienteering compass
- True, grid and magnetic north
- The variation, declination and deviation
- The magnetic dip
- Bearing, heading and course
- How to use the compass
- Bisects and triangulation
- Dead reckoning with a compass
- Navigation tips to be efficient
- Tactics in low visibility, especially in fog or at night
- Electronic Navigation

6) And much more...

Prerequisites: There are no prerequisites for this course other than the desire to become more knowledgeable about navigation.

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