

Coastal Navigation [Sail and Power]

Shore-Based Course

Requirements at start date: No navigation knowledge required. Preferably ISPA Day Skipper certificate, or some on the water experience.

Course Content: Complete all module assessments and chart work exercises in the ISPA Coastal Navigation workbook, either by correspondence or classroom course.

Estimated time required: 20 hours

On The Water Practical

Requirements at start date: ISPA Coastal Navigation Shore-Based Course. Plus preferably ISPA Day Skipper, or some on the water experience.

Course content: See course standard for details.

On the water course duration: Minimum amount of time for candidate to meet the practical standard. Practical can be part of a Coastal Skipper practical course.

On The Water Practical Course as follows:

1. Be able to produce and use the necessary personal instruments to carry out the task of a coastal navigator
2. Demonstrate the use of vessel equipment the coastal navigator can utilize to assist in navigation
3. Identify 20 different chart symbols, on a local chart, using the publication *Chart # 1*, or other chart symbol library
4. Demonstrate the ability to use the national publications:
 - *List of Lights, Buoys, and Fog Signals*. Canada
 - *Sailing Directions*. Canada OR
 - *List of Lights and Light List* USA
 - *US Coastal Pilot and Sailing Directions*. U.S.A
5. Using a Douglas type protractor, demonstrate the ability to:
 - Convert from true to compass and vice versa, calculating for deviation and variation, while maintaining an accurate navigational log with all relevant data, e.g. T.V.M.D.C. Lat./Long, course, speed
 - Plot a fix by using 3 lines of position
 - Plot a fix by using a transit and a bearing
6. Demonstrate accurate dead reckoning using correct chart work symbology
7. Using speed time and distance formulae give an estimated time of arrival for each course change and final destination
8. Demonstrate accurate plotting of an electronic fix using GPS latitude and longitude readings, establish and follow a course
9. Demonstrate how to safely change from large to small-scale charts and vice versa
10. Demonstrate the use of the publications *Tide and Current Tables*, Canada, *Tidal OR Current Tables* and *Tide Tables* U.S.A. by:
 - Planning a passage through a pass
 - Calculating the depth of water for anchoring overnight
11. Demonstrate the ability to plot a running fix
12. Demonstrate the navigational skills to stay in close proximity to the course correcting for set and drift
13. Demonstrate a working knowledge of how current flows at varying speeds and directions, and what affects this can have on the accuracy of navigating a small vessel in coastal waters
14. Demonstrate good piloting in confined waters, as outlined in module 8 of the Coastal Navigation workbook
15. Demonstrate a thorough understanding of:
 - All aspects of the lateral Buoyage system
 - The placement of cardinal buoys
 - The use of cautionary buoys and special purpose buoys
16. Demonstrate a thorough knowledge of International Collision Regulations