

# Ocean Skipper

## Coure Details

Course: Ocean Skipper

Minimum Age: 18

Duration (Hours): 100 (Hours (Theory): 76, Hours (Practical): 24)

Prerequisites: Coastal Skipper, In order to get a Ocean Skipper certificate, it is necessary to have the Coastal Skipper certificate and the minimum age is 18 years old. [patraomor.frontend.migx.patraz\\_de\\_costa](mailto:patraomor.frontend.migx.patraz_de_costa)

## Course Description

This course allows day and night navigation, without any limit of the navigation area or limitation in terms of size of yacht and engine power.

Course Program:

- General recap of the Coastal skipper course program, with greater emphasis on matters on safety, navigation and communications;
- Time: Earth motion and apparent diurnal motion; conversion of arc to time and vice versa; mean solar time and cool time; time zones and stopwatches;
- Introduction to astronomical navigation: stars, stars, planets and solar system; celestial sphere and celestial coordinates; position triangle;
- Nautical almanac: its description and use;
- Observed height and true height; correction for the observed height of the Sun, stars and planets and the Moon;
- Sextant. Observation of stars to determine heights; day and night observations; rules for observing meridian heights. Rectification and index error;
- Position at noon (meridian height of the Sun);
- Latitude by the Pole Star;
- Height straights; transport and determining point; drawing of a straight line of height; transport of a straight line of height; errors in the height line;
- Use of tables, calculators and dedicated software in astronomical navigation;
- Position by extra meridian observations of the Sun;
- Planning for twilight observations;
- Point by stars, planets and Moon;
- Verification of needle deviations at sunrise and sunset;

- Orthodromic, loxodromic and mixed defeats;
- GPS navigation. Radar: operability with the radar; ARPA system; kinematics notions; movement components and their graphic representation; absolute and relative movement; speed triangle; maneuver rose. Navigation by gonion;
- Electronic charts;
- Maritime Radiocommunications: knowledge of the subjects included in the examination program to obtain the Class A radiotelephone operator certificate;
- First aid.
- Safety: fire fighting and damage limitation; rescue means and equipment; man overboard; emergency procedures; ship abandonment and survival at sea. International Code of Signals; Regulation to Avoid Collisions at Sea; safeguarding human life at sea; environmental protection;
- Meteorology: atmosphere; temperature; atmospheric pressure and barometers; clouds; visibility; mist; precipitation; wind; systems and wind; air masses; fronts; squalls and anticyclones; tropical and extratropical cyclones; maneuvering and dangerous semicircles; weather reports and forecasts. Oceanography: sea water; Ocean currents; currents on the Portuguese coast; waves; floating ice; monthly routing letters. weatherfax and navtex;
- Publications. Travel planning.