



# Yachtmaster Offshore Shorebased Course

## Cruising Scheme

Get wet, Get on the water!

<b>Objective</b>	The ISA Yachtmaster Offshore Shorebased course develops the recreational sailor's ability to skipper a sailing or motor yacht on coastal and offshore passages during daylight and at night.
<b>Previous knowledge / experience</b>	For the Yachtmaster Offshore Shorebased Course it will be assumed that you will have mastered the skills and knowledge covered in the ISA Yachtmaster Coastal Shorebased Course.
<b>Duration</b>	45 hours contact time
<b>Assessment</b>	<ul style="list-style-type: none"><li>⇒ Students may receive certification when;</li><li>⇒ They have attended at least 80% of the course.</li><li>⇒ They have completed all of the assessment papers to a standard acceptable to the instructor.</li><li>⇒ They must have achieved at least 80% in the assessment on the Collision Regulations. (Note that this is the only paper with a defined numerical percentage pass mark.)</li><li>⇒ They have demonstrated an understanding of the principals taught during the course.</li></ul> <p>Shorebased course certificates are course attendance certificates and can only be awarded following successful course completion. Shorebased course completion certificates cannot therefore be issued solely on the basis of assessments completed without course attendance.</p>
	<i>By the end of this course you will be able to do the following:</i>
Dead reckoning and estimated positions	Definition of DR and EP Working up DR and EP by plotting on a chart
The position line	Sources of position lines: transits, compass bearings, rising or dipping distances, radio, and depth contours.

### Where can you go to do this course?

This course can only be run by an ISA Training Centre. All ISA Training Centres have all gone through a rigorous accreditation process to ensure that they provide high quality training in a safe environment. With Training Centres based in every corner of Ireland there are plenty to choose from for training close to home or while on holiday.

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The magnetic compass	<p>Allowance for variation. Change of variation with time and position</p> <p>Siting of the steering compass and causes of deviation</p> <p>Allowance for deviation</p> <p>Steering and hand bearing compasses</p> <p>Swing for deviation (but not correction)</p>
Position fixing	<p>Techniques of visual fixing</p> <p>Running fixes</p> <p>Fixes combining a mixture of position lines</p> <p>Ranges by dipping distances</p>
Tides	<p>Causes of tides</p> <p>Tide tables - British Admiralty and yachting Almanacs</p> <p>Tidal levels and datums</p> <p>Tidal height calculations for standard ports</p> <p>Tidal height calculations for secondary ports</p> <p>Tidal anomalies</p> <p>Rule of twelfths</p>
Tidal streams	<p>Tidal stream atlas</p> <p>Tidal diamonds</p> <p>Tidal stream information in Sailing Directions and yachting Almanacs</p> <p>Plotting a course to steer with allowance for tidal stream</p> <p>Tide rips, overfalls and races</p> <p>Tidal stream observation from buoys, beacons, etc</p>

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Training  
Centre



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Electronic navigation aids	<p>Basic knowledge of satellite and terrestrial electronic aids to navigation, their capabilities and limitations</p> <p>Significance of horizontal chart datum and chart inaccuracies</p> <p>GPS, dGPS, EGNOS/WAAS</p> <p>Waypoint and route navigation</p> <p>Electronic chart plotters, Raster and Vector electronic charts</p>
Weather	<p>Basic terms, the Beaufort scale</p> <p>Air masses</p> <p>Cloud types, yacht's barometer</p> <p>Weather patterns associated with pressure and frontal systems</p> <p>Weather forecasts, facsimiles and simple instruments</p> <p>Forecast sources: facsimile, broadcasts, Web, Navtex, commercial</p> <p>Land breezes and sea breezes</p> <p>Sea fog</p>
Yacht and motor boat stability	<p>Hydrostatic stability</p> <p>Form stability, ballast stability</p> <p>Heel angle of vanishing stability (AVS)</p> <p>Range of negative stability (Danger Zone)</p> <p>Dynamic stability</p> <p>Effect of roll moment of inertia in resisting capsize</p> <p>Free surface effect</p>
Passage planning	<p>Preparation of passage plan for an offshore passage</p> <p>Significance for leisure vessels of SOLAS V</p>
Passage making	<p>Provisioning</p> <p>Yacht preparation and management for offshore passage making</p> <p>Watch schedules and house-keeping duties</p> <p>Crew management and welfare on passage</p>

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Buoyage and lights	<p>IALA system buoyage, Region A</p> <p>Limitations of buoys as navigation aids</p> <p>Light characteristics and ranges</p> <p>Light lists - British Admiralty, and yachting Almanacs</p>
Pilotage	<p>Harbour regulations and control signals</p> <p>Method of pre-planning</p> <p>Clearing lines</p>
Echo sounders and distance logs	<p>Principle of operation</p> <p>Types available, rotating neon, digital, analogue</p> <p>Capabilities and limitations</p> <p>Offsets and Calibration</p>
Colregs	<p>A sound knowledge of the International Regulations for Preventing Collisions at Sea</p>
Safety	<p>Personal safety, use of lifejackets, safety harness and lifelines</p> <p>Fire prevention and firefighting</p> <p>Distress signals</p> <p>Preparation for heavy weather</p>
Communications	<p>VHF, MF/HF transceivers</p> <p>Mobile phones, satellite mobile phones, e-mail</p>

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