



Yachtmaster Ocean Shorebased Course

Cruising Scheme

Get wet, Get on the water!

Objective	The ISA Yachtmaster Ocean Shorebased Course develops the recreational sailor's ability to skipper a sail or motor yacht on ocean passages without the use of electronic aids, where the yacht will be out of sight of land for extended periods.
Previous knowledge / experience	For the Yachtmaster Ocean Shorebased Course attendance Cert. it will be assumed that you will have mastered the skills and knowledge covered in The ISA Offshore course.
Duration	45 hours contact time
Assessment	<ul style="list-style-type: none"> ⇒ Students may receive certification when; ⇒ They have attended at least 80% of the course. ⇒ They have completed all of the assessment papers to a standard acceptable to the instructor. ⇒ 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.) ⇒ They have demonstrated an understanding of the principals taught during the course. <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>
Time	<ul style="list-style-type: none"> ⇒ Definition of, and relationship between, LMT, GMT, UTC ⇒ Definition of Greenwich Day, Standard Time, Zone Time ⇒ Equation of time, relationship between longitude and time, the international date line ⇒ Chronometer, deck watch and time signals
The sextant	<p>Principles of operation, fixed instrument errors, handling and care of the sextant</p> <p>Taking sights</p> <p>Practical demonstration of checking and correcting the sextant for perpendicularity of the index mirror, side error and index error</p>

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.

To find a full list of ISA Training Centres & Courses in your area go to www.sailing.ie/training

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Training
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Correcting sextant altitude to observed altitude	<p>Index error</p> <p>Use of dip and altitude correction tables, sun, stars and planets</p> <p>Problems associated with low altitude sights</p>
The earth and the celestial sphere.	<p>Definition of geographic position, declination, hour angle, Greenwich hour angle, local hour angle, first point of Aries, sidereal hour angle</p> <p>Zenith and zenith distance</p> <p>Precession and nutation</p>
The Nautical Almanac	<p>Contents and layout</p> <p>Extraction of GHA and Declination, times of meridian passage and civil twilight, application of increments and corrections</p>
Latitude by meridian altitude	<p>Forecasting time of meridian altitude</p> <p>Calculation of latitude from meridian altitude sight</p>
Sight reduction tables: AP 3270, Volumes 2 & 3	<p>Contents and layout</p> <p>Selection of the chosen position</p> <p>Tabulation and extraction of calculated altitude and true bearing</p>
Sight reduction by calculator	<p>Advantages of the calculator for sight reduction</p> <p>Formulae for calculated altitude and true bearing</p>
Planet sights	<p>Reduction of planet sights by AP 3270, or calculator, and plotting</p>

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Sun sights	Reduction of sun sights by AP 3270, or calculator, and plotting Reduction and plotting of sun-run-meridian altitude sights Reduction and plotting of sun-run-sun with allowance for current
Moon sights	Use of altitude correction tables for the moon Reduction of moon sights by AP 3270, or calculator, and plotting
Star sight planning	Advance planning of star sights using AP 3270 Vol. 1 Other methods of star altitude and bearing prediction
Star sights	Sight reduction of simultaneous sights of multiple planned stars using AP 3270 Vol. 1 and plotting Corrections to position for precession and nutation
Latitude by Polaris	Calculation of latitude by Polaris tables
Compass error check	Determination of compass error using tables or calculator
The PZX triangle	Great circles, small circles The tabulated components of the PZX triangle Awareness of the basic relationship between the PZX triangle and AP 3270 tables, or calculator formulae, as used for sight reduction
Meteorology	Prevailing winds and currents of the world
Tropical revolving storms	Tropical revolving storms, northern and southern hemisphere Sources of official TRS warnings and track prediction Forecast and track prediction by personal observation TRS avoidance considerations at sea 'Hurricane hole' survival considerations

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Communications	MF/HF communications Satellite communications, Satcom C, satellite telephones
Passage planning	Publications, routeing charts and official documentation
Great circles sailing	Comparison of great circle distances and rhumb line distances Transferring great circle courses to Mercator passage charts
Passage making	Importance of provisioning and stowage Yacht preparation and management for offshore passage making Crew management, watch schedules and house-keeping duties
Charts and electronic aids to navigation	Chart limitations due to age or inaccuracy of source data Awareness of the possible limitations of electronic position fixing aids to navigation in some areas

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