

Yachtmaster Coastal Topics and Exercises 2009/10 Syllabus

Section	Sub-topic	Studied?
Chartwork Revision <i>Exercise 1</i>	Charts and publications	
Position <i>(Exercise 1)</i> <i>Exercise</i> <i>Exercise 7 Q 2,3,4</i>	Dead reckoning and estimated position	
	Satellite-derived position	
	Use of waypoints to fix position	
	Radar fixes	
	Visual position fixing	
	Fixes using a mixture of position lines	
	Accuracy of different methods	
The magnetic compass <i>Exercise B</i>	Areas of uncertainty	
	Variation including change with time and position	
	Deviation including swing for deviation (but not correction)	
	Allowance for deviation	
Tides <i>Exercise 2</i> <i>Exercise 7 Q 5</i>	Types of compasses	
	Cause of tides	
	Springs and neaps	
	Tide tables	
	Tide levels and datums	
	Standard ports	
	Secondary ports	
	Tidal anomalies	
Tidal streams <i>Exercise C</i> <i>(Exercise 1 Q 3)</i> <i>Exercise 4</i> <i>Exercise 7 Q 1</i>	Sources of tidal information	
	Tidal stream information in yachtsmen's almanacs and sailing directions	
	Tide rips, overfalls and races	
	Tidal observation around buoys and beacons	
	Allowance for tidal streams in computing a course to steer	
Buoyage <i>Exercise D Q 3,4,5,7</i>	IALA buoyage system – region A and B	
	Limitations as navigational aids	
Lights <i>Exercise D Q 1,2,3,6</i>	Characteristics	
	Ranges	
	Rising and dipping distances	
	Lights list	
Pilotage <i>Exercise 5</i>	Harbour regulations and controls	
	Pre-planning methods	
	Clearing Lines	
	Use of soundings	
	Transits and leading lines	
GPS and chart plotters <i>Exercise E Q 1,2,3,7,8</i>	Principles and limitations	
	Raster and vector charts	
	Datum	
	Confirmation and recording of position	
	Link to paper charts	
Echo sounders <i>Exercise E Q 4</i>		
	Operation and limitations	
Radar <i>Exercise E Q 5</i>		
	Operation and limitations	
Logs <i>Exercise E; Q 6</i>		
	Speed and distance measuring	
	Operation and limitations	

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The deck log	Layout and recording	
	Importance as official document	
Meteorology	Basic terms	
	The Beaufort scale	
	Air masses	
	Cloud types	
	Pressure and frontal systems	
	Sources of weather information	
	Interpretation of weather forecast information	
	Land and sea breezes	
	Local effects	
	Fog	
	Use of the barometer	
Exercise F		
Rules of the road Exercise G	The International Regulations for Preventing Collisions at Sea	
Safety at sea	Personal safety	
	Fire prevention and fire fighting	
	Distress signals	
	Safety schemes	
	Heavy weather	
	Liferafts and helicopter rescue	
	Stability and capabilities of vessels	
Exercise H Q 1 to 6		
Navigation in restricted visibility	Precautions in fog	
	Navigation strategy in fog	
	Limitations to safe navigation in fog	
Passage planning	Preparation	
	Regulations	
	Navigation in coastal waters	
	Course laying	
	Waypoints and routes	
	Weather planning	
	Sources of local and national regulations	
Exercise 6		
Marine environment	Pollution	
	Responsibilities and rules	
Exercise H Q 7		

Use this form to monitor your progress as you work your way through the topics and exercises of the Yachtmaster Coastal Interactive CD-ROM Correspondence Course!
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IMPORTANT NOTE

A number of exercises and subjects require the use of the Electronic Chart Plotter which is included with the RYA Training Pack. It is important to install this program on your computer following the instructions included with it. Once installed use the tutorial program included and the instruction book enclosed with the CD to familiarise yourself with its use. Practice with the chart plotter is essential before attempting to use it for any of the exercises. If you have any difficulties contact your tutor