



## Axe Yacht Club



### RYA Yachtmaster Shore Based Course Outline

Wk	Date	Introduction	Topic 1	Topic 2	Reading	Exercise
1	16/10/24	Welcome. Introductions to personnel and course. Students aspirations	Starting point Exercise	Course administration. Aims and Objectives. Books and equipment.	CN pp 3-8	
2	23/10/24		<b>Charts 1</b> – Basics, projections, RYA Charts, position referencing	<b>Charts 2</b> – paper and electronic; Datums; Chart information; related publications		Exercise “Charts and Publications” for week 3.
3	30/10/24	Introduction to IRPCS	<b>Compass 1</b> Variation and Deviation; Compass types and siting.	<b>Position 1</b> – Visual fixing; Relative accuracy; Cross Checking, Areas of uncertainty.	IRPC Book Chapters 1 to 3. CN pp 33 - 37	
4	6/11/24		<b>Compass 2</b> Compass Error; Swing for Deviation;	<b>Position 2</b> – Plotting an Estimated Position (DS revision) with deviation	CN pp 8 to 11 (Compass) CN pp 30 - 32	Exercise “Compass” for return week 6.
5	13/11/24	Time Zones	<b>Tides 1</b> Causes, Springs, Neaps; English Channel Tides; Definitions	<b>Position 3</b> – Position Lines; Radar and GNSS derived positions.	CN pp 12 to 19 CN pp 33 - 36	Exercise “Techniques for Visual Fixing” for return week 7.
6	20/11/24	IRPC Chapters 1 to 3 Exercise	<b>Tides 2</b> Tidal heights – Standard ports	<b>Position 4</b> Running Fix and Distance off by dipping distance.	IRPC Book Chapters 4 and 5 CN pp 20 CN pp 37	
7	27/11/24		<b>Tides 3</b> – Secondary Ports – times and heights; Anomalies	<b>Electronic Equipment</b> Logs, sounders and radar – Principles and limitations.	CN pp 21 – 24 CN pp 51 - 52	Exercise “Vertical Datum, Depths and Heights” for week 8.

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8	4/12/24	IRPC Chapters 4 and 5 Exercise	<b>GNSS, Electronic Charts and Plotters</b> GNSS principles; Combining information from text based GNSS instruments with paper charts; The Chart Plotter; Electronic Charts; Waypoints and Routes		CN pp 38 - 50	Exercise "Electronic Aids to Navigation" for return week 9	
9	11/12/24		<b>Tidal Streams1</b> – Information; CTS: Examples	<b>Predicted EP</b> – construction and use	IRPCS Book Chapters 6 and 7 CN pp 24 - 27	Exercises "Electronic Chart Plotting" for return week 10.	
10	18/12/24	Exercise on IRPCS Chapters 6 and 7 Sound and light signals.	<b>Tidal Streams 2</b> – Choices and Hazards (Gates etc)	<b>Plotting CTS</b> and deriving COG, SOG and TTG	CN pp 28 – 29 CN pp 53 - 59	Exercise "Tidal Streams" for week 12.	
11	1/01/25		IRPCS Exercise	Exercise debrief			
12	8/01/25		<b>IRPCS Assessment Paper</b>				Exercise "Dead Reckoning and Estimated Position" for week 13
13	15/01/25		<b>Buoyage and lights.</b>	<b>Meteorology 1</b> Terms / Air Masses	CN pp 92 – 101 CN pp 113 – 115 CN pp 125	Exercise "Visual Aids to Navigation" for return week 14.	

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14	22/01/25		<b>Pilotage 1</b> – Sources of information; techniques	<b>Meteorology 2</b> Cloud Types; Low Pressure Systems	CN pp 102 – 107 CN pp 116 – 117 CN pp 120 - 124	Exercise “Course to Steer” for week 16	
15	29/01/25		<b>Pilotage 2</b> – Principles; Pre-planning; Class Example	<b>Meteorology 3</b> High Pressure Systems; Sources of weather information	CN pp 108 – 112 CN pp 124	Exercise “Pilotage” for week 17.	
16	05/02/25		<b>Passage Planning 1</b> Background; Regulations; Customs, etc.	<b>Meteorology 4</b> Interpreting the f cast/metfax	CN pp 132 – 134 CN pp 135 - 139	Exercise “Interpreting Forecasts” for week 18	
17	12/02/25		<b>Passage Planning 2</b> Forming plan, charts, notes etc.	<b>Meteorology 5</b> Local winds / Fog/ Navigation in Restricted Visibility	CN pp 126 - 130	Exercise “Meteorology” for week 19.	
18	19/02/25		<b>Passage Planning 3</b> Ex “Passage Making”			Exercise “International Maritime” for week 20	
19	5/03/25		<b>Safety at Sea 1</b> Capability of vessels; Stability	<b>Safety at Sea 2</b> Risk Assessment; Crew Capability, Briefing	CN pp 76 - 81		
20	12/03/25		<b>Safety at Sea 3</b> Briefings (Class Exercise)	<b>Safety at Sea 4</b> Equipment; Fire; Distress and Rescue	CN pp 74 – 75 CN pp 82 - 91	Ex “Safety” for return week 21	
21	19/03/25		Chartwork Practice				
22	26/03/25		<b>Chartwork Assessment</b>				
23	02/04/25		<b>Passage Making Assessment</b>				
24	09/04/25		Debriefs				