## Recreational Sailing & Boating Education

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Private & Tailored Programs on:

## Marine RADAR Operator & Navigator

- √ The RADAR is undoubtedly a critical piece of equipment necessary for safe navigation.
- √ Too often misunderstood or not used properly, even by professional bridge officers.
- √ The RADAR is your most versatile and important piece equipment on board to prevent safety issues and assist you in case of an emergency
- ✓ Choose topics of interest from the full list of topics below or a preset program level
- ✓ Schedule hands-on training onboard your yacht between May 1 to September 30
- ✓ Learn practical information from the first-hand experiences of the instructor

LIST OF TOPICS	LEVEL 1	LEVEL 2	LEVEL 3		
Introduction to RADAR	<b>✓ ✓</b>				
Theory Of Operation	<b>√</b>	✓	✓		
Capabilities, Limitations, & Errors	<b>√</b>	✓	✓		
RADAR Operation & Tuning	✓	✓	✓		
Range, Gain, Pulse Length, & Sensitivity	✓	✓	✓		
Interference Rejection, Sea & Rain Clutter	✓	✓	✓		
RADAR & AIS Targets	✓	✓	✓		
Detection of Targets & Characteristics	✓	✓	✓		
Heading Line Calibration		✓	✓		
RADAR Navigation		✓	✓		
Electronic Bearing Lines "EBL" & Variable Range Markers "VRM"		✓	✓		
Fixing a position using RADAR		✓	<b>✓</b>		
Clearing Lines			✓		
Parallel Indexes			✓		

## Marine RADAR Operator & Navigator

RADAR Beacons "RACON"	<b>✓</b>	<b>√</b>	✓
RADAR Deacons RACON			
Collision Avoidance using RADAR		✓	✓
Vectors & Trails		✓	✓
Acquiring Targets with ARPA / MARPA		✓	✓
Target Info – CPA, TCPA, BCD, etc.		✓	✓
Target Errors and Other Precautions	✓	✓	✓
RADAR Plotting & Vector Analysis			✓
RADAR Guard Zones and Alarms	✓	✓	✓
RADAR Overlays			✓
Search & Rescue Transponders "SART"	✓	✓	✓

## **Marine RADAR Operator & Navigator Program Fee Schedule**

May 1 to September 30

Program	Format	Hours	Schedule	Cost	Max People
Level 1	In Person	2	1 x 2 hr	\$60/hr/1 pers.	4
				\$45/hr/pp/2+ppl	
Level 2	In Person	4.0	1 x 4 hr	\$60/hr/1 pers.	4
				\$45/hr/pp/2+ppl	
Level 3	In Person	7.5	1 x 7.5 hr	\$60/hr/1 pers.	4
				\$45/hr/pp/2+ppl	
Private /	In Person	TBD	As	\$60/hr/1 pers.	4
Tailored			Requested	\$45/hr/pp/2+ppl	

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