

Discover Boating™ Hands-On Learning
On-Water, Skills-Based Boater Training
Year Two
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Final Report
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Submitted by:

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EXECUTIVE SUMMARY

The Foundation is once again very pleased to report it has significantly exceeded its stated objectives and met the deliverables requirements associated with its “Year Two Grant”. With the revised funding award, the Foundation committed to conduct 18 days of on water training events for recreational power boaters at 6 boat shows. By the end of the grant period, 31 powerboat training days were conducted at 9 boat shows surpassing the objective by 50% and 73% respectively. In addition, the Foundation organized and conducted 22 on water training days for sailors at 6 boat shows delivering a combined total (power & sail) of 53 training days and 15 boat show events. The number of recreational Powerboaters trained through this grant totaled 794, up 20% over Year One Grant totals. With an additional throughput of 569 participants in sailing events, there were 1369 recreational boaters who received advanced on water skills instruction during this grant period. This brings the two year Discover Boating Hands on Skills Training (HOST) program total to approximately 2,700 participants.

INDUSTRY ENGAGEMENT

The very favorable results achieved were made possible through continued contributions of boat show producers and exhibitors and incremental revenues generated through nominal registration fees paid by event participants. As impressive as the quantifiable results highlighted above are, the qualitative achievements are perhaps even more important – especially from a long term perspective.

The underlying objective of the Discover Boating activities funded by this grant is to get the marine industry, especially boat dealers and manufacturers, actively engaged in boater education and skills training as a core business practice. Industry “ownership of the problem” is paramount to achieving significant increases in boating safety and measurable reductions in accidents and fatalities identified in the RBS Strategic Plan. It’s important to bear in mind however that the industry is still suffering from the severe economic depression that has gripped the entire country. Dealers have seen new boat sales slashed, decimation of the dealer ranks, factory closings and innumerable restructurings with rippling effects throughout the entire industry. So it is understandable if our audience is reluctant to take their collective eye off the ball.

While there remains a great deal of work to do before success can be claimed, there has been significant progress made this past year toward that vital goal. Examples of measurable “wins” in that area include the commitment of the Recreational Boating Leadership Committee to boater education as one of 6 key industry strategies adopted to insure the continued health and future growth of the marine industry. The creation of National Marina Day, an industry wide cross marketing event that featured on water skills training as a core attraction, clearly demonstrates that the Foundation is making progress toward its challenge of making a compelling case that boater education not only increases safety and enjoyment but also makes good business sense. Both of these milestones are directly attributable to the successes of the Discover Boating Host boat show program and the continuing efforts of the Foundation and its partners.

Despite the continuing economic battles with which the industry is wrestling, the Foundation is more encouraged than ever that we are steadily building the level of industry engagement needed to measurably impact boating safety on a nationwide basis and that the current strategy has been unequivocally validated.

In conclusion, there are three key strategies that are fundamental to the achievement of our primary goal:

1. Continue to make a strong case that boater education is good for the business of boating
2. Focus on expanding the capacity to deliver skills training to facilitate boater education at the dealer level – this includes engaging other training organizations in the Discover Boating effort and using the Discover Boating platform to publicize and promote continued training and serve as a referral hub for recreational boaters looking for qualified training organizations
3. Expand upon the highly visible and popular boat show experiential learning events – they increase awareness, motivate boaters to seek more training and create a culture of safety among the boating community and the industry alike

BACKGROUND

The Discover Boating™ Hands on Learning Center grant was originally presented as a three year plan to increase boating safety through the delivery of essential on water boat operation and safety skills by and through marine dealers. The ultimate goal is to get dealers and the industry to embrace boater skills training as a core business practice and to make hands on skills training an ongoing, self-sustaining effort through industry funding and support.

The challenge in the first year was to determine whether the boating community would be interested in hands on skills training and if boat shows were viable venues. Results from year one proved the popularity of the on water skills training events and boat shows provided several significant advantages that facilitated training delivery: built in marketing and promotion support, access to the right audience, ready availability of the necessary facilities and equipment and access to key industry stakeholders.

During year two, the objective was to demonstrate the value and potential business benefits generated by the training activity in order to establish a business case for direct industry involvement. The entire concept of the Discover Boating Hands on Skills Training approach is based on the belief that, structured correctly, training and education would not only advance boating safety but also prove to be an effective marketing tool that generates customers and improves business results. Based on results over nearly two years, that premise has been proven correct... the approach supports the “business of boating” (including the training business) while serving to improve boating safety and enjoyment. The statistical support for that position will be provided later in this report in the form of “Participant Profile Data”.

Once the viability of the concept and approach was proven, the task during year three would then be to develop instructors in key geographic regions capable of conducting Hands on Skills Training events. This will enable boat shows to feature training events at a much lower cost which will increase the number of events available to recreational boaters nationally. This cadre of qualified instructors will then also be available to assist dealers to add hands on learning events to their core business activities. It is the dealer centric nature of this approach that gives it substantial outreach and maximum impact ***potential***. Ongoing support from NMMA is mandatory.

BOAT SHOW EVENTS - KEY RESULTS

The “Year Two” grant covered the period from September 2012 to June 2013 and provided funding to conduct on water skills training events for powerboaters at 6 boat shows for the period. With an average of 3 training days per show, the goal was to conduct 18 total event training days. The key results achieved for powerboat on water training events for Year two versus the funded objectives include the following:

- Powerboat events were conducted at 9 boat show venues vs. 6 funded - 150% of objective
- Powerboat training days totaled 31 vs. an objective of 18 - 173% of objective
- Powerboat event participation totaled 794 - up 20% versus Grant Year One

The favorable results reflect a continuing popularity of and desire for hands on skills training by the recreational powerboating community. The good news is that these boat show events are filling a void in on water skills training and, according to participant “profile” statistics, motivating them to seek additional training. Unfortunately, there is still a widespread lack of available training resources that can pick up where the boat

show events leave off... an issue that will be addressed as a major part of the Year 3 (and beyond) Discover Boating program. On another encouraging note, the positive results are made possible through the willingness of the public to pay a modest fee to participate and the growing support of the industry in general- more on that in the section on "Industry Engagement".

We were able to apply the same model/concept to sailing events much as was done last year and with very similar results. When added to the already impressive powerboat event results, the addition of sailing event statistics confirm even more convincingly the efficacy of the boat show hands on skills training events concept. Six additional sailing events at boat show venues boost the total to 15 events 250% of the funded year two objective and a 50% increase versus year one results. Combined participation for year two power and sail events totaled 1363 participants.

When added to the total from last year, Discover Boating Hands on Skills Training events have had the opportunity to positively impact boating safety and enjoyment with almost 2,700 participants in just two years (1,455 powerboat & 1230 sail).

Industry Engagement

There have been several developments in this area in the last 12 months that are particularly noteworthy:

1. The Discover Boating Hands on Skills Training events are being requested by additional show producers and experiential event content is being expanded and modified to accommodate conduct at indoor shows at the request of the industry
2. NMMA board of directors comprised of leaders from every sector of the industry have endorsed the Discover Boating strategy and many have expressed interest in actively supporting the programs
3. The Recreational Boating Leadership Council, a key industry stakeholder group (RBLC), has developed six key strategies designed to secure the future of and grow the boating industry over the next decade. In particular, three of the six are very closely related to objectives/strategies identified in the Strategic Plan of the National Recreational Boating Safety Program (RBS).
 - a. The RBLC formed an education committee charged with developing a long term plan to secure widespread industry engagement in boater education directly and in collaboration with existing training organizations. This is reflective of the belief that increased skills will result in greater safety and enjoyment leading to higher retention' and hands on skills training is an effective market and new boater development tool.
 - b. The industry has realized for some time that its owner base is aging and it is crucial that a concerted outreach effort be mounted to introduce the joys of boating to a new, younger audience. Plans to address this issue are currently being developed.
 - c. The ethnic demographic of the United States population is evolving and again, the industry must respond to its need for greater diversity by reaching out to those segments that aren't currently well represented in the ranks of boaters and boat owners. Again, appropriate planning is being undertaken.
4. Discover Boating has the ability to support all three of these strategies/issues most effectively through the development of additional programs geared toward specific audiences by modifying its message slightly and or through target audience dependent changes and additions to event content. Specific

modifications and program enhancements are already underway and will be rolled out over the next 12 months within Discover Boating's Grant Year 3 program.

5. For the first time ever, the entire marine industry united to conduct a nationwide event called "Welcome to the Water on National Marina Day". The Association of Marina Industries reported that 242 marinas hosted events this year - one hundred more than in any of the past 12 years. Total attendance was estimated at an average of 150 persons per event for a total of 36,000 participants. While the goal was to engage 10,000 individuals in hands on learning events of some sort AMI was not able to provide reliable/accurate numbers of participants due to reporting issues and estimates are in the 7,000 person range. It is very encouraging that the level of interest in experiential learning events demonstrates growing acceptance that hands on learning events are a multipurpose tool that supports safety and business interests at the same time.
6. Discover Boating has invited additional training organizations to participate in boat show training events by providing local instructors and training vessels. A more formal arrangement is under development for "Grant Year 3"
7. BoatUS has joined ASA and RPBA in promoting Discover Boating Events by sending announcements and invitations to participate in events to its members in various boat show market areas. Other membership organizations have agreed in principle to provide similar support and the Foundation is looking to industry magazine publishers to promote the events to their subscribers in support of the boating industry and increasing boating safety.

STAKEHOLDER FUNDING

Participant registration fees combined with increased contributions from boat show producers has provides the level of funding that enabled the Discover Boating Hands on Skills Training program to exceed its quantitative objectives over the last two years. A specific sponsorship plan is being developed to engage multiple stakeholders in directly funding the boat show program. Rollout is anticipated for Fall 2013.

UPDATED PARTICIPANT PROFILE

Boat Ownership

845	69%	Yes
381	31%	No

- The events attract the right audience
- The events get newcomers started on the right foot

Skills Level

515	42%	New/Beginner
578	47%	Intermediate
132	11%	Advance

- A good mix of novice vs. experienced boaters
- Especially considering the majority of boaters had no prior formal training

Prior Training

423	35%	Yes
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803 65% No

- These events fill a void in skills training availability
- Confirms the importance of boat shows as delivery venue

Age Category

1	0%	< 18
28	2%	18 to 24
153	13%	25 to 35
618	50%	36 to 54
426	35%	55 & up

- Need to consider adjusting content to appeal to a younger audience

Want add'l training?

794	79%	Yes
205	21%	No

- The boating public is very interested in improving skills
- Participation in boat show events motivates interest in additional hands on training
- Boat shows are an ideal venue – they provide convenient access for the target audience and help create awareness through extensive marketing and promotion

**Considering boat
Purchase?**

405	41%	No
140	14%	Yes < 6 months
211	21%	Yes 6 to 12 Months
245	25%	Yes > 12 Months

- This fact along with the desire for additional training helps make the business case to get the industry enthusiastically engaged in this effort

Appendix A

Powerboating Made Easy Underway Skills Training Program

Program Description

Powerboating Made Easy (PME) teaches fundamental knowledge and skills that are essential to all powerboat operators.

It is designed for skippers and crew who are new to boating as well as seasoned boaters who have had no formal training. Its overall goal is to prepare new boaters to skipper their own boat safely and enhance the skills, safety and confidence of those who have boating experience. Powerboating Made Easy is designed as a “practical, hand on skills building companion” to NASBLA and state approved boating safety programs usually taught in a classroom setting or learned through online, self study programs.

However, essential boating *skills* are best learned through practical, hands on experience. Through PME, students get the opportunity to engage in hands-on exercises during specially designed underway learning sessions. Practical skills training includes: precision boat control in tight spaces, docking skills, basic chart familiarization and route planning, using Aids to Navigation, applying the rules of the road while underway, anchoring, handling waves and wakes safely and much more. Classes are conducted aboard either a single or twin inboard or an outboard/stern drive boat and participants may choose to learn on whichever propulsion type is most suitable for their needs.

This unique, experiential approach puts participants at the helm of a training vessel with a USCG licensed and RPBA certified professional instructor to transform boating knowledge into skills that will last a lifetime.

Facilities and Equipment Required

1. Training vessel with appropriate Propulsion system
2. USCG Required equipment
3. HH - VHF radio
4. Pre-departure and Post sail checklist
5. Fenders, boat hook
6. Travelling dock lines
7. Spring lines
8. Anchor & rode
9. Nautical Chart of local area - smallest scale available
10. Chart no. 1
11. Pair of dividers
12. Portable white board and markers
13. Optional - hand held GPS

Powerboating Made Easy

Capable - Confident - Safe

Educational Objectives

The goal of Powerboating Made Easy is to increase boating safety and enjoyment by improving boaters' nautical knowledge, practical skills and confidence. Upon successful completion of the program, participants will have learned the information and skills required to safely operate a powerboat in local, waters during daylight hours in good conditions.

Specific Performance Objectives:

Upon successful completion of Powerboating Made Easy, students will:

1. Understand the responsibilities of the boat operator and or skipper for the safety of vessel, passengers and crew including the vessel wake as well responsibility to other boats/boaters
2. Be able to conduct a thorough pre-departure and post sail vessel checkout
3. Be able to conduct a pre-departure passenger safety briefing and familiarize all passengers with the location and use of all onboard safety equipment, and underway hazards and explain the importance of wearing personal floatation devices and filing a float plan
4. Demonstrate the ability to use a nautical chart to formulate a basic route/trip plan and understand the basics of fuel planning
5. Use several methods to obtain an up to date weather report
6. Demonstrate the correct use of a VHF radio
7. Understand the requirements and necessity for managing trash and overboard discharge
8. Be able to formulate and safely execute a departure and docking plan
9. Demonstrate their ability to manage vessel movement and momentum through the correct use of shifter(s), throttle(s) and steering controls
10. Demonstrate the ability to:
 - a. Maneuver close to fixed objects and other vessels in tight spaces
 - b. Turn the vessel around within a confined maneuvering area
 - c. Back down a narrow channel in a straight line
 - d. Stop the vessel under control including an "urgency stop" from normal operating speed
 - e. Dock bow first in a slip
 - f. Dock side to a pier such as a fuel dock
 - g. Use fenders correctly and safely as required in the above maneuvers
 - h. Tie the vessel up securely in a slip and or alongside a pier
11. Demonstrate the correct application of Navigation rules for meeting, crossing and overtaking while at the helm, underway including required maneuvering signals,
12. Demonstrate the ability to use nautical chart while underway to identify vessel position and to use Aids to Navigation to safely execute a trip/route plan
13. Demonstrate an understanding of "safe speed" and how to perform as a "lookout"
14. Demonstrate the ability to safely recover a crew who has fallen overboard
15. Successfully complete an anchoring exercise including how to:
 - a. Use a nautical chart to select an appropriate location and identify the bottom type
 - b. Use a depth sounder to determine depth
 - c. Calculate the correct scope based on conditions
 - d. Lower anchor correctly and pay out anchor rode
 - e. Set the anchor and tie it off once in final position
 - f. Use landmarks and or a GPS to assure anchor is holding
 - g. Correct a dragging anchor and recover a fouled anchor
 - h. Set up an anchor watch and why it's important
16. Dock the boat, make her fast in the slip and perform a thorough post-sail check

Powerboating Made Easy

Capable - Confident - Safe

Lesson Plan/Teaching Guide

Section I - Pre-Departure Preparation & Safety

Topic	Key Points to cover	Teaching Aids/Notes
Operator Responsibilities	Explain overall responsibility for safety of vessel, passengers and crew and other vessels/boaters	
Float Plan	Students should understand the importance, key information and correct use of a float plan including when and with whom/where to file	Hand out sample form
Weather Check	Demonstrate how and where to get up to date marine weather information for planned boating area	VHF marine radio, cell phone or other internet application
Passenger Safety Briefing	- Procedures for Boarding & disembarking safety - Hand holds and appropriate seating areas - Hazards - decks, gunwales, bow riding - Vessel motion - powering up, turning, slowing, wakes and waves - PFDs - location and use (try them on and adjust) - Safety Equipment - VHF Radio, fire extinguishers, flares & signaling equipment, de-watering/bilge pump switch - Handling trash/plastics/garbage - Refueling procedures and safety - Familiarize at least one passenger with controls to be able to return boat to dock if skipper is incapacitated	Use vessel at dockside and pertinent equipment
Pre-departure Vessel checkout	Cover all safety items, critical vessel systems and required equipment	Use Pre-departure checklist
Route Planning	- Review basic chart information with students - Identify ATONs along route - Identify hazards - shallow areas, obstructions - Approximate Distance - destination and return - Fuel Planning - refueling locations - Safe havens in event of emergency - Cover additional guides, publications useful for navigation - Discuss Local Notice to Mariners and importance of updating charts	Use Nautical Chart for the intended area

Section II - Pre-Departure Preparation & Dockside Familiarization

Topic	Key Points to cover	Teaching Aids/Notes
Familiarization with controls	Dockside: review controls layout and explain shifting rules, steering rules and throttle position during close quarters maneuvers	Underway teaching checklist
Departure Planning	• Discuss how to develop an undocking plan • Assess hazards and plug into plan • Wind, current, other boats, maneuvering room, obstructions, vessel maneuverability and or limitations • Determine order of casting off lines • Identify where fenders might be needed	White board and markers Fenders, boat hook
Crew Assignments & Communication	• Review Departure plan with crew • Assign crew responsibilities • Review specific “how to” complete task • Review specific line handling safety and castoff procedure with crew • Review correct and safe use of fenders • Insure all crewmembers are able to perform assignments safely	White board and markers Fenders, boat hook

Section III - Underway Vessel Familiarization - Open Water

Execute Departure Plan	• Instructor at helm - executes undocking maneuver & provides complete explanation of thoughts and actions taken during maneuver • Demonstrate proper crew communication	Progressive Teaching Method 1
Helm Orientation	• Demonstrate correct positioning for access to controls and maximum visibility • Practice moving from wheel to controls without looking • Discuss boaters eye and awareness of vessel movement • Discuss wind awareness and clues/cues to determine direction and strength • Review rules for maneuvering in wind and or current • Review shifting rules • Review steering rules • Demonstrate 2 methods for centering helm • Demonstrate raising vs. pulsing throttle • Discuss trim tab position and motor/outdrive trim position	Instructor Underway Teaching Guidelines Underway Maneuvers Checklist

Section III (cont'd.) - Underway Vessel Familiarization - Open Water

Vessel Maneuvering Evolutions	Instructor Demonstrates all maneuvers 1st then students rotate through helm position • Steering in a straight line with minimal helm input • Normal Stop -moving ahead at idle speed - o Determine stopping distance • Urgency stop - moving ahead at idle speed - o Determine stopping distance - o Maintain Bow Control • 360° turn in tight circle - idle speed only - o Initiate turn in both directions - o Initiate turn in reverse - o Initiate turn in forward - o Practice all elements with pulsed throttles - o Discuss & Compare differences • Backing down in a straight line at idle speed - maintain awareness and control of bow - o With wind - o Against wind - o Wind abeam - o Compare and discuss differences	Instructor Underway Teaching Guidelines Underway Maneuvers Checklist
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Section IV - Close Quarters Boat Control - confined space

Close Quarters Maneuvers - Instructor Demo	• Instructor Demonstrates all maneuvers 1st • Use basic then advanced methods as student proficiency increases • students rotate through helm position and man fenders as required • Discuss wind/current considerations • Demonstrate how to formulate a maneuvering plan including how to manage wind/current	Instructor Underway Teaching Guidelines Underway Maneuvers Checklist Fenders
Close Quarters Maneuvers - Student Evolutions	• Discuss how to handle wind/current • Backing down 50 yards in a narrow channel in a straight line • 360° turn in minimum space - idle speed • Maneuvering close to fixed objects/other boats • Docking bow first in a slip - o Review docking plan - o Crew assignments & communication • Docking alongside a pier (fuel dock) - o Port & Starboard to - o Shallow approach angle - o Steep approach angle • Discuss refueling - safety and the environment	Instructor Underway Teaching Guidelines Underway Maneuvers Checklist Fenders

Section V - Underway Voyage to Anchoring Grounds

Formulate Route Plan	- Familiarize Students with chart basics including scales and level of detail and chart symbols - Discuss need for chart corrections and where to get Local Notice to Mariners - Discuss other publications to aid navigation - Identify ATONs and landmarks - Identify hazards & areas of avoidance - Discuss distance and fuel planning - Identify safe refuge and refueling points	Local Nautical Chart Chart No. 1 Dividers
Review Underway Plan	- Develop and Communicate Position Rotation schedule/plan - If shorthanded, combine positions - Split position time evenly - Assign Crew Positions and explain/discuss responsibilities of each - Skipper - overall responsibility for safety of vessel, passengers, crew - Helmsman - safe operation and compliance with navigation rules - Navigator - vessel position/location at all times - Lookout - 360° awareness at all times - Review Rules of the Road - Meeting, crossing, overtaking - Stand on, give-way - Sound signals - Safe Speed - Wake responsibility - Courtesy - Discuss weather awareness - Discuss use of compass	Local Nautical Chart Chart No. 1 Dividers Position Rotation worksheet
Conduct Voyage	While underway to destination - Discuss vessel trim and correct use of trim tabs and or motor/outdrive trim adjustments - Coach each position in proper performance of its functions - Teach communication, coordination and teamwork among crewmembers - Use all opportunities to reinforce proper application of and compliance with Navigation Rules and responsibilities for the safety of vessel, passengers, crew and other boats/boaters - Use underway situations to reinforce wake responsibility	Local Nautical Chart Chart No. 1 Dividers Position worksheet

Section VI - Anchoring Exercise

Preparation	- Selecting spot - Depth - Bottom type - Anchor type - Type of rode (secure the bitter end) - Dealing with wind/current - Room to swing/other vessels - Calculating Scope - Normal conditions - Wind/current - Narrow spaces - How to Measure rode - Confirm bitter end of rode is secured - Discuss anchoring safety and handling a runaway anchor	Nautical Chart Depth Sounder Anchor Rode Fender/Float
Anchoring	- Lowering anchor correctly - Paying out rode safely - Setting anchor - How to Check the set - Securing anchor - Where/how to cleat it off - Never from the stern - How to handle a dragging anchor	Anchor Rode Fender/Float
Retrieving/Weighing Anchor	- Manually and or with electric winch - How to free a fouled anchor - What to do if it cannot be freed - Securing the anchor properly	Fender/Float
Anchoring in Emergencies	- Loss of power, mechanical failure, e.g. - In advance of or during a sudden storm	

Section VII - Return to Dock/Marina

Conduct Return Voyage	While underway to destination - Continue position rotation - Coach each position in proper performance of its functions - Use all opportunities to reinforce proper application of and compliance with Navigation Rules and responsibilities for the safety of vessel, passengers, crew and other boats/boaters - Use underway situations to reinforce wake responsibility - Additional Docking practice as time allows - Make vessel fast in slip - Perform "Post Sail Checkout"	Local Nautical Chart Chart No. 1 Dividers Position worksheet Post Sail Checklist
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Powerboating Made Easy
Capable - Confident - Safe

Position Rotation Schedule

Evolution 1	Position	Name
	Skipper	
	Helmsman	
	Lookout	
	Navigator	

Evolution 2	Position	Name
	Skipper	
	Helmsman	
	Lookout	
	Navigator	

Evolution 3	Position	Name
	Skipper	
	Helmsman	
	Lookout	
	Navigator	

Evolution 4	Position	Name
	Skipper	
	Helmsman	
	Lookout	
	Navigator	

APPENDIX B

POWERBOAT INSTRUCTOR GUIDELINES FOR BOAT SHOWS

Instructor Objectives:

1. Provide an outstanding learning experience for all participants - we want everyone to walk away very excited about boating - so much so that they can't wait to get back out on the water. The instructor's primary task is to show EACH Participant how much fun boating is and it's so easy anyone can operate a boat with a few simple skills.
 2. Ultimately, the goal is to promote the **business** of boating including the training business. Ideally, the experience encourages non-boaters to be more open to boat ownership, lapsed boaters to reconsider their decision to leave the sport and rekindles the passion and enthusiasm that got existing boaters into the sport in the first place AND motivates ALL to seek additional skills training
 3. Promote Boating and the Boating lifestyle - each instructor is an ambassador for the sport, your own schools/businesses and the marine industry entities that make these events possible
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General Instructor Guidelines

- Foster an atmosphere of safety - the owner/operator is responsible for the safety of passengers, crew and the vessel and has a responsibility to all others on the water.
- Maintain a congenial but professional demeanor at all times - instructors must set the example particularly with respect to safety and responsibility.
- Take personal responsibility for each participant's experience.....the complete satisfaction and enjoyment of each participant is the instructor's goal.
- Provide a quality learning experiencewith the maximum fun factor. Adjust your teaching approach to each individual not vice versa. Emphasize fun and enjoyment as part of the learning experience
- Maximize hands on participation - keep all participants engaged especially when they are awaiting their turn at the helm
- Maximize participant helm time. Instructors should limit their time at the helm to a simple demonstration of a skill or technique and let participants discover by doing rather than watching.
- Maintain event schedule awareness - where time allows, sessions may be extended as possible
- Pre-departure Safety briefing - you set the example
 - o Include caution re: vessel movement, hand holds and where not to stand, sit etc
 - o Location and use of all required USCG Safety equipment
 - o Correct fitting of PFD - Instructors and participants must wear PFDs while onboard and underway - TYPE V inflatables will be provided for all persons
 - o Line handling and equipment safety
 - o Fenders and fending off - no body parts
- Importance of obtaining an up to date weather report & filing a Float plan
- Importance of pre-departure critical systems check
 - o Discussion and highlights only
- Captains will Check vessels out daily before class except where pre-departure check is part of the curriculum
- Docking plan - discuss and demonstrate formulating a departure and docking plan and need for thorough communication with crew

APPENDIX C - BOAT SHOW ONE HOUR EVENT CONTENT

ONE HOUR EVENT MODULES DERIVED FROM “POWERBOATING MADE EASY”

Powerboat Clinic 1 - Fundamentals of Close Quarters Boat Control

This is geared to newcomers and (lapsed?) experienced boaters who seek a refresher program with expert instructors and includes the following:

- a. Importance of a docking and departure plan and crew communication
- b. Understanding and using vessel controls/inputs - shifters, steering and throttle
- c. Understanding and managing momentum
- d. Stopping under control and stopping distances (including urgency stop method)
- e. Backing down in a straight line
- f. 360 degree pivot turns in small spaces
- g. Docking bow first in a slip
- h. Docking alongside a pier (fuel dock)

Powerboat Clinic 2 - Advanced Docking and Precision Boat Control

This element is geared toward experienced boaters or those wishing to move up in vessel size or class and includes the following:

- a. Advanced use of controls - shifters, throttle and rudder(s)
- b. Managing momentum in tight spaces and maneuvering close to fixed objects and other boats
- c. Precision maneuvering in tight spaces
- d. Strategies for managing wind and current in docking maneuvers
- e. Using wind and current to ferry vessel to port and starboard
- f. Use of spring lines for docking and departing

Powerboat Clinic 3 - Open Water Boat Handling and Seamanship

The content of this class directly addresses vessel operator deficiencies that have been shown through accident analysis to contribute directly to accidents and fatalities and includes:

- a. Skipper's primary responsibility for safety of passengers, vessel and crew
- b. Responsibility to other boats and boaters
- c. Pre-departure passenger safety briefing
- d. Correct use of Navigation lights
- e. Handling wakes and waves and wake responsibility
- f. Correct vessel trim via load management, trim tabs and or engine tilt/trim
- g. Crew positions and responsibilities (lookout, navigator, helmsman, etc)
- h. Understanding and correctly applying the Navigation Rules for meeting, crossing and overtaking, safe speed, lookout requirement and navigation lights and more
- i. Underway Helmsmanship Nav. Rules
 - o RULE 5 - Lookout
 - o RULE 6 - Safe Speed
 - o RULE 7 - Risk of Collision
 - o RULE 8 - Action to Avoid Collision
 - o RULE 9 - Narrow Channels
 - o RULE 13 - Overtaking
 - o RULE 14 - Head-on Situation

- o RULE 15 - Crossing Situations
- o RULE 16 - Action by give way Vessel
- o RULE 17- Action by Stand-on Vessel
- o RULE 18 - Responsibilities between Vessels Pecking order
- o RULE 19 - Conduct of Vessels in Restricted Visibility
- o RULE 23 - Power-driven Vessels Underway
- o RULE 32 - Definitions
- o RULE 33 - Equipment for Sound Signals
- o RULE 34 - Maneuvering and Warning Signals

Powerboat Clinic 4 - Anchoring and Rafting up with other vessels

This evolution teaches anchoring safety and additional information on when and how to use the anchor in emergencies to secure the vessel and hold position and includes:

- a. Identifying type of bottom using chart
- b. Formula for calculating Scope based on normal conditions
- c. Adjustments for changing conditions, currents and winds
- d. Deploying anchor correctly
- e. Paying out rode and setting anchor securely
- f. Recovering anchor and strategies for freeing a fouled anchor
- g. Setting up a vessel at anchor for taking on rafters
- h. Rafting up to an anchored vessel
- i. Departing safely after rafting up