MOTORBOATING PERSONNEL QUALIFICATION STANDARDS (PQS)

Personnel Qualification Standard (PQS)

Motorized vessels in open or confined fresh and marine waters, including Biscayne Bay and Florida Bay, Keys coastal water inside the reef tract

Crew Chief Candidate:	
This PQS is designed to be completed under the guidance of a mentor. Any mentor signing off on a task must be a qualified Motorboat Crew Chief. The purpose of the PQS is to allow crew members to gain experience and knowledge working under a qualified Motorboat Crew Chief, while working as crew during normal research operations. This allows for specific "on the job" training with the vessels being used, and the operational area being worked in. Mentors should only sign off on tasks once the trainee is competent in performing the task independently. Once all sections are complete, the Crew Chief/trainer should notify a Qualified Examiner to make arrangements for the "dockside" exam and underway check ride. Qualified Examiners are designated by the BSO with input from SERC and the FOC.	
<u>Initial Certifications</u>	
<u>Completed</u>	
Obtain state of Florida Boating Safety Education Card. A copy should be submitted with this completed PQS.	
Current First Aid certification. A copy should be submitted with completed PQS.	
Current CPR certification. A copy should be submitted with this completed PQS.	
Pass the Motorboat Crew Chief Qualification Examination with a score of 90% of better. The exam should be submitted with this completed PQS.	
Log at least twenty (20) hours behind the helm. Hours underway must be logged and signed off by qualified motorboat crew chief. A copy of the log should be submitted with this completed PQS.	
Accomplished:	
Applicant Signature Date	

Date_____

Date_____

Trainer Signature_____

PI Signature_____

Trailering

Note: The Marine Science BBC Boatyard is an excellent location to practice trailer skills without the complications of traffic.

Completed			
	Properly hook truck up trailer. Hitch, chains, and lights.		
	Conduct safety checks of truck, trailer, and boat in preparation for transport.		
	Safely drive truck and trailer in forward gear, inc	cluding pulling up boat ramp.	
	Safely drive truck and trailer in reverse, including backing down boat ramp.		
	Prep boat for launch, and safely launch boat.		
	_ Retrieve boat onto trailer, pull out of water and secure for travel.		
Accomplish	ned:		
Applicant Signature		Date	
Trainer Signature		Date	
PI Signature		Date	

Pre-Trip Preparations

<u>Completed</u>			
Demonstrate knowledge of how to reserve F	Demonstrate knowledge of how to reserve FIU vehicle and boat.		
Prepare a float plan.			
Ensure boat is equipped with all necessary s	 Ensure boat is equipped with all necessary safety and operational equipment. Verify boat is fully fueled and electrical systems are functional. Ensure crew and passengers have enough food, water, clothing, and sun protection for anticipated field time, as well as reserves in case of trouble that leave boat and crew stuck for extended length of time. 		
Verify boat is fully fueled and electrical sys			
for anticipated field time, as well as reserve			
Accomplished:			
Applicant Signature	Date		
Trainer Signature	Date		
PI Signature	Date		

Operational Tasks

Completed		
	Safely board all gear, crew, and passenge	ers.
	Brief all crew and passengers, both safet	y and mission briefings.
	Demonstrate proficiency in safely leavin	g dock/launching area.
	Demonstrate proficiency in safely operat	ing boat underway as part of mission.
	Demonstrate proper usage and knowledg	ge of engine cut of switch.
	Demonstrate proficiency in safely docki retrieval.	ng, returning to launching area, and boat
	Demonstrate knowledge of communication radio, cell phone, and satellite phone; as	ons equipment, use and limitations. VHF applicable to operating area.
	Demonstrate knowledge of emergency whistle, etc.	signaling devices. EPIRB, flares, mirror,
	Tie the following knots and state their us hitch, round turn and two half hitches.	se. Cleat hitch, bowline, sheet bend, clove
	Demonstrate ability to read and navigate area.	e with appropriate charts and/or maps for
	Demonstrate ability to use GPS, and if stations.	applicable the depthfinder to find your
	Demonstrate ability to use GPS to return	n to launching point.
If applicable	for vessels in open waters:	
	Demonstrate ability to use tide tables.	
	Demonstrate knowledge of currents and	transiting inlets.
	Demonstrate knowledge of the inland an	d international "Rules of the Road".
Accomplishe	ed:	
Applicant Signature		Date
Trainer Signature		Date
PI Signature		Date

Post Trip Tasks

Completed				
Fuel boat and truck at FIU fuel p	Fuel boat and truck at FIU fuel pumps after return to campus.			
Remove and return all gear that of	Remove and return all gear that does not remain stored aboard.			
Wash down boat and trailer.				
Close out float plan.				
Accomplished:				
Applicant Signature	Date			
Trainer Signature	Date			
PI Signature	Date			
· · · · · · · · · · · · · · · · · · ·	at, and most importantly, the personnel aboard the ns may occur, my crew chief title may be revoked,			
Signature	Date			
with either myself or my designated crew chief in a manner that promotes safety of the vessel, the	nave completed the PQS for FIU motorized vessels trainer and authorize them to operate FIU vessels he environment, the research equipment, and most lso acknowledge that if any unsafe operations may d we may be responsible for damage fees.			
Signature	Date			

Personnel Qualification Standard (PQS) Motorized vessels that are Chartered

To qualify as a motorboat crew chief for chartered vessels, an individual must have a U.S Coast Guard Merchant Mariner Credential (OUPV or Greater).

Personnel Qualification Standard (PQS) Motorized vessels at Aquarius Reef Base

To qualify for ARB Vessels, the candidate must complete the ARB Personnel Qualification System with the Aquarius Operations Director or an appointed designee.

Personnel Qualification Standard (PQS) Motorized vessels at night

To conduct planned night-time operations the following additional requirements must be met: completion of the Research Vessel Captain or motorboat crew chief Night-time Endorsement section of the ARB Personnel Qualification System and/or completion of portions of the FIU Boating and Safety Manual where applicable.

Personnel Qualification Standard (PQS) Specific vessels

For specific vessel operations the following additional requirement must be met: completion of the Research Vessel Captain or motorboat crew chief vessel specific section of the ARB Personnel Qualification System and or completion of portions of the FIU Boating and Safety Manual where applicable (i.e. Dewey Dwayne). For specific vessels, the Marine or Freshwater FOC, depending on who owns the vessel, will have the final say if the motorboat crew chief candidate has sufficient experience to operate the vessel.

Personnel Qualification Standard (PQS) New Motorized vessels brought into FIU fleet

For a vessel new to the FIU fleet, the BSO shall determine which operators have sufficient experience to operate the vessel without completing a relevant PQS section. Qualification in this manner shall be based on experience and skills and shall be documented in writing. FIU/ARB Operations Director will work with the BSO for ARB personnel.