Personal Qualification Standard (PQS)
Motorized vessels 21’ to 26’ in fresh or 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 needs to 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/Mentor should notify a Qualified Examiner to make arrangements for the “dockside” exam and underway check ride.

Initial Certifications

Completed

_______ 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% or better. The exam should be submitted with this completed PQS.

_______ Perform as crew for 20 hours underway. Hours underway should be logged and signed off by qualified motorboat crew chief. A copy of your log should be submitted with this completed PQS.

Accomplished:

Applicant Signature ____________________________ Date ____________

Trainer Signature ____________________________ Date ____________

PI Signature ____________________________ Date ____________
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, including 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.

**Accomplished:**

- Applicant Signature_________________________ Date______________
- Trainer Signature___________________________ Date______________
- PI Signature_______________________________ Date______________
Pre-Trip Preparations

**Completed**

- [ ] Demonstrate knowledge of how to reserve FIU vehicle and boat.
- [ ] Prepare a float plan.
- [ ] 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.

**Accomplished:**

Applicant Signature______________________________ Date________________

Trainer Signature______________________________ Date________________

PI Signature__________________________________ Date________________
Operational Tasks

Completed

________ Demonstrate knowledge of the inland “Rules of the Road”. A rules test will be given as part of the “dockside exam”.

________ Demonstrate knowledge of the inland and international “Rules of the Road”. A rules test will be given as part of the “dockside exam”.

________ Safely board all gear, crew and passengers.

________ Brief all crew and passengers, both safety and mission briefings.

________ Demonstrate proficiency in safely leaving dock/launching area.

________ Demonstrate proficiency in safely operating boat underway as part of mission in class of boat and operating environment you are being qualified for.

________ Demonstrate proficiency in safely docking, returning to launching area, and boat retrieval.

________ Demonstrate knowledge of communications equipment, use and limitations. VHF radio, cell phone, and satellite phone; as applicable to operating area.

________ Demonstrate knowledge of emergency signaling devices. EPIRB, flares, mirror, whistle, etc.

________ Tie the following knots and state their use. Cleat hitch, bowline, sheet bend, clove hitch, round turn and two half hitches.

________ Demonstrate ability to read and navigate with appropriate charts for area.

________ Demonstrate ability to use GPS and depthfinder for navigation and finding your stations.

________ Demonstrate ability to use tide tables.

________ Demonstrate knowledge of currents and transiting inlets.

Accomplished:

Applicant Signature___________________________ Date_______________

Trainer Signature____________________________ Date_______________

PI Signature_________________________________ Date_______________
Post Trip Tasks

Completed

_________ Fuel boat and truck at FIU fuel pumps after return to campus.

_________ 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______________