

STATE REGULATIONS

Each state has boating laws in addition to the federal regulations discussed in the previous chapters that are unique. You must familiarize yourself with your state's regulations to ensure that you are following all the appropriate laws. These laws are available for download from the Boater101 web site: www.boater101.com. A practice exam may also be available online depending on your state's mandatory boating education requirements.

GLOSSARY

Aboard On a boat

Aft In or near the stern of a boat

Aground When a boat hull is touching bottom

Amidship In or toward the center of the boat

Anchor A casting shaped to grip the sea bottom and hold a boat in place by an attached rope

Aquaplaning Device Any type of device that you can use to skim on the surface of the water, i.e. boat, water skis, jet skis

Astern Toward the stern of a boat

Backfire Flame Arrestor A device attached to an engine's carburetor that prevents a fire from leaving the carburetor system in the event of a backfire; required for all gasoline engines

Beam Width of a boat at its widest point

Bilge The internal part of a boat's hull

Biodegradable Capable of being broken down into harmless products

Bow Forward or front part of a boat

Can Buoy Green, white or black, cylindrical buoys with odd numbers that are positioned on the left side of channels when returning from sea

Capacity Plate A placard required on all boats; lists the maximum weight capacity for the boat as well as the horsepower rating

GLOSSARY

Capsize To tip over

Catamaran A boat with two hulls that are connected by a deck

Chart A map that shows the characteristics of a body of water; includes navigational aids, hazards to navigation such as reefs or shoals and water depths

Deep Vee Bottom Hull A hull design that is in the shape of a “V”. These hulls plane well and through the addition of an engine with greater horsepower, can produce a comfortable ride

Displacement Hull A hull designed to move water out of the way as it plows through it

Draft The vertical depth measured on a boat from the waterline to the lowest part of the hull

Flat Bottom Hull A stable type of hull design but provides a bumpy ride when operated at high speeds

Float Plan A form to be submitted to a local authority or relative on land before leaving port; includes a description of the boat, people onboard, radio equipment, trip plan, and emergency notifications

Forward Moving towards the bow of a boat

Freeboard The vertical distance measured on a boat from the waterline to top of the transom

Give-way Vessel The boat that must take immediate and significant action to avoid colliding with another vessel when following the Rules of the Road (see “Stand-on” Vessel)

Great Lakes System Includes the Great Lakes and their connecting and tributary waters including the Calumet River as far as the Thomas J. O’Brien Lock and Controlling Works (between mile 326 and 327), the Chicago River as far as the east side of the Ashland Avenue Bridge (between mile 321 and 322), and the Saint Lawrence River as far east as the lower exit of Saint Lambert Lock

Gunwale The upper edge of a boat's side

Head A marine toilet

Helm The steering wheel controlling the rudder of the boat

Hull The body of a boat

Hypothermia A physical condition where the human body loses heat faster than it can be produced

Idle Speed The minimum speed that is necessary to maintain steerage of your vessel

Intracoastal Waterway (ICW) The ICW is a toll free waterway that is 3,000 miles long. It stretches along the Atlantic Coast from Boston, MA to Key West, FL and along the Gulf of Mexico coast from Apalachee Bay, FL to Brownsville, TX

Knot A unit of speed on the water that is equal to one nautical mile (6,076.10 feet) an hour

Leeward Located on the side away from the wind (See Windward)

Line General term for rope on a boat

Line of Demarcation Marks the dividing point between inland and offshore waters

Livery A boat rental facility

Log A record of a boat's journey

Manually Propelled Vessel Any vessel that is not mechanically powered by an engine (i.e. canoes, sailboats under sail, kayaks, rafts and rowboats)

Mooring A permanent anchor or buoy that a boat can attach to while in one location

GLOSSARY

Motorized Vessel Any vessel that is mechanically powered by an engine.

Multihull Having one or more hulls; provides more stability and less resistance when moving through the water

Nautical Mile Equal to 6,076.10 feet; longer than a standard mile

Navigable Bodies of Water Waterways that are directly connected to the ocean, so are therefore affected by tides and are capable of being navigated by vessels for the purpose of reaching the ocean

Negligent Operation The operation of a vessel and/or interference with the safe operation of a vessel, so as to endanger lives and/or property

No Discharge Zones Waterway zones in which neither treated nor untreated sewage may be released into the water

No-Wake Speed See Idle Speed

Non-Motorized Vessel Any vessel that is not mechanically powered by an engine (i.e. canoes, sailboats under sail, kayaks, rafts and rowboats)

Nun Buoy Red buoys with even numbers that are positioned on the right side of channels when returning from sea

Oar A long paddle used to propel a boat forward

Onboard On the boat

Outdrive The propulsion unit on an inboard/outboard or stern drive engine.

Planing Hull A hull designed to lift out of the water at high speeds

GLOSSARY

Port 1) The left side of the boat as you face forward 2) A destination or harbor, i.e. when a boat is docked it is in a port

Powerboat Any vessel that is mechanically powered by an engine

Rigging A general term for all of the lines on a boat

Round Bottom Hull A hull designed to be easily maneuverable but may tip easily

Rudder The device by which a boat is steered

Sailboat Vessels that are being operated by sail only. Since many sailboats are equipped with engines, they are considered powerboats when they are in use, even if their sails are up

Spar Buoy A channel marker that narrows at the top from a round base; used to replace any other type of buoy

Stand-on Vessel The boat that must continue on the same course and speed when following the Rules of the Road (See Give-way Vessel)

Starboard The right side of the boat as you face forward

Stern The rear or back of the boat

Swamp To fill with water

Throttle A mechanical part of the boat that regulates the speed of the engine

Tide The rise and fall of waters controlled by the gravitational pull of the moon and sun

Transom The outside of a boat's stern

Underway When a boat is in motion

GLOSSARY

Vee Bottom Hull A hull designed to provide a smooth ride in choppy waters

Wake The path left by a moving boat in water, a wave

Waterline The line where the hull intersects with the water when a boat is fully equipped for operations

Western Rivers System Includes the Mississippi River, its tributaries, South Pass, and Southwest Pass, to the navigational demarcation lines dividing the high seas from harbors, rivers, and other inland waters of the United States, and the Port Allen-Morgan City Alternate Route, and that part of the Atchafalaya River above its junction with the Port Allen-Morgan City Alternate Route including the Old River and the Red River

Windward The side of the boat towards the wind (See Leeward)

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Boat Operations Checklist

Each Trip

- Make sure all exhaust clamps are in place and secure
- Look for exhaust leaking from the exhaust system components evidenced by rust and /or black streaking, water leaks, or corroded or cracked fittings.
- Inspect rubber exhaust hoses for burned or cracked sections. All rubber hoses should be pliable and free of kinks.
- Confirm that cooling water flows from the exhaust outlet when the engines and generator are started.
- Listen for any change in exhaust sound that could indicate a failure of an exhaust component.
- Test the operation of each carbon monoxide detector by pressing the test button.

Do not operate the vessel if any of these problems exist!

At Least Annually: (Performed by a qualified marine technician)

- Replace exhaust hoses if any evidence of cracking, charring or deterioration is found.
- Inspect each water pump impeller and inspect the condition of the water pump housing. Replace if worn or cracked (refer to the engine and generator manuals for further information).
- Inspect each of the metallic exhaust components for cracking, rusting, leaking or looseness. Pay particular attention to the cylinder head, exhaust manifold, and water injection elbow.
- Clean, inspect and confirm the proper operation of the generator cooling water anti-siphon valve (if equipped).

Float Plan

1. Boat Operator/Description of the Boat
 - a. Operator Name/Telephone Number:

 - b. Boat Registration Number/Name:

 - c. Make/Size: _____
 - d. Fuel Capacity: _____
 - e. Number of Engines: _____
2. Number of Persons Onboard: _____
Name/Address _____

Name/Address _____

Name/Address _____

Name/Address _____

3. Radio Equipment
 - a. Type: _____
 - b. Call Sign: _____
 - c. Cell Phone: _____
4. Trip Plan
Leaving From: _____
Going To: _____
Departing On (Date and Time): _____
Returning On (Date and Time): _____
5. If not returned by: _____
Notify: _____
6. If emergency arises call: _____
 - a. Coast Guard _____
 - b. Local Authority _____

Pre-Departure Checklist

Before leaving the dock, be sure that you take a few minutes to complete the following checklist.

Minimum Federal Required Equipment

- State Registration Documentation
- State Numbering Displayed
- Certificate of Documentation
- Life jackets (PFDs) – one for each person
- Throwable PFD
- Visual Distress Signals
- Fire Extinguishers (fully charged)
- Proper Ventilation
- Backfire Flame Arrestor
- Sound Producing Device(s)
- Navigation lights
- Oil Pollution Placard
- Garbage Placard
- Marine Sanitation Device
- Navigation Rules
- Any Additional State Requirements

Recommended Equipment

- VHF Marine Radio
- Anchor and Tackle
- Chart(s) of Area & Navigation Tools
- Magnetic Compass
- Fenders and Boat Hook
- Mooring Lines and Heaving line
- Manual Bilge Pump or Bailing Device
- Tool Kit
- Spare Parts (fuses, spark plugs, belts)
- Spare Battery (fully charged)
- Spare Propeller
- Extra Fuel & Oil
- Alternate Propulsion (paddles/oar)
- Flashlight & batteries
- Search Light
- First Aid Kit
- Sunscreen (SPF 30+)
- Mirror
- Food and Water
- Extra Clothing
- AM – FM Radio
- Cellular Phone
- Binoculars

Safety Checks and Tests

- Test VHF Marine Radio (voice call)
- Test Navigation and Anchor Lights
- Test Steering (free movement)
- Test Tilt/Trim
- Test Bilge Pump
- Check for any excessive water in bilges
- Check Fuel System for any leaks
- Check Engine Fluids
- Ensure Boat Plug is properly installed
- Check Electrical System
- Check Galley/Heating Systems
- Check gauges (i.e. Battery)
- Check Fuel Amount
- Ensure Anchor is ready for use
- Check load of vessel and secure gear from shifting
- Ensure passengers know Emergency Procedures and Equipment Location
- Everyone put on a life jacket to check for proper fitting
- Check the Weather Forecast
- File a Float Plan with family or friend