

About Boating Safely

One-day course

- **Introduction to Boating** - Types of power boats; sailboats; outboards; paddle boats; houseboats; different uses of boats; various power boating engines; jet drives; family boating basics.
- **Boating Law** - Boat registration; boating regulation; hull identification number; operating safely and reporting accidents; protecting the marine environment; Federal boat law; state boating laws; personal watercraft requirements.
- **Boat Safety Equipment** - Personal flotation devices ("life jackets"); fire extinguishers; sound-producing devices; visual distress signals; dock lines and rope; first aid kit; anchors and anchor lines; other boating safety equipment.
- **Safe Boating** - Bow riding; alcohol and drug abuse; entering, loading, and trimming a boat; fueling portable and permanent tanks; steering with a tiller and a wheel; docking, undocking and mooring; filing a float plan; checking equipment, fuel, weather and tides; using charts; choosing and using an anchor; safe PWC handling; general water safety.
- **Navigation** - The U.S. Aids to Navigation system; types of buoys and beacons; navigation rules (sometimes referred to as right-of-way rules); avoiding collisions; sound signals; PWC "tunnel vision."
- **Boating Problems** - Hypothermia; boating accidents and rescues; man overboard recovery; capsizing; running aground; river hazards; strainers; emergency radio calls; engine problems; equipment failures; carbon monoxide (CO); other boating and PWC problems.
- **Trailing, Storing and Protecting Your Boat** - Types of trailers; trailer brakes, lights, hitches, tires, and bearings; loading, balancing, and towing a trailer; towing (and backing) a trailer; boat launching and retrieving; boat storage and theft protection; launching, retrieving and storing a PWC.

GPS For Mariners

2-class course

GPS for Mariners is a modern learning experience that focuses on the GPS equipment typically owned by the recreational boater. This course is the result of an exciting synergy between textbook's publisher, the book's author, and the Auxiliary.

The course involves inviting course participants who already own hand-held GPS units to bring them to the class, increasing interactivity of the educational experience and getting students more involved.

Weekend Navigator

8-class course

- **The Marine Magnetic Compass** - Parts operation of the marine magnetic compass; concept of deviation and distinctions.
- **The Nautical Chart** - Characteristics of nautical charts, particularly Mercator and polyconic projections; plotting positions in terms of latitude and longitude.
- **The Navigator's Tools & Instruments** - Navigator tools used in everyday practice; basic skills and familiarity with the use of plotting instruments; use of other instruments and equipment used in the practice of navigation.
- **Dead Reckoning** - Dead reckoning methods including plotting, labeling, measuring, and determining DR positions; speed, time, distance formulas and problem solving.
- **Piloting** - Line of Position (LOP) concepts; bearing use in LOPs; running fix by advancing or retiring an LOP; danger bearings; estimated positions when the data are lacking for a FIX.
- **Current Sailing** - Understanding current and the motion of the vessel; determination of actual set and drift given course steered, speed maintained, and a FIX; determination of course to steer and speed to maintain given specified track and speed of advance and current set and drift.
- **Tides & Tidal Currents** - Tidal phenomena, causes, and typical variations; why tides are important to the mariner; use of Tide Tables to estimate the height of the tide at any time; use of Tidal Current Tables to estimate the strength and direction of the current.
- **Radionavigation** - Basics of RDF, Loran-C, Radar, and GPS, their respective advantages, disadvantages, limitations.
- **Navigation Reference Publications** - Acquaintance with the U.S. Coast Pilot, the Light List, and the Notices to Mariners; computation of visibility of lights given height of light, observer, prevailing visibility and nominal ranges; importance of up-to-date charts and other publications.
- **Fuel & Voyage Planning** - Basics of fuel planning, including the definitions of fuel efficiency, fuel reserves, endurance, and range; fuel consumption affects of such factors as hull design, engine horsepower, throttle settings, condition of bottom etc.

Sailing Skills & Seamanship

10-class course

The format of this course closely follows Boating Skills and Seamanship but is geared toward those with sailboats, including:

How A Boat Sails – Reading the wind; points of sailing, running, close hauled, reaching, sail shape; sail adjustments; when the wind picks up.

Basic Sailboat Maneuvering – Tacking; jibbing; sailing a course; stability and angle of heel; knowing your boat.

Rigging And Boat Handling – Stepping the mast; making sail; hoisting the sails; leaving the dock; mooring; controlling the sails; anchoring; weighing anchor.

Know Before You Go



“How was I supposed to know...”



Boating Education by
U.S. Coast Guard Auxiliary

Cary
Flotilla



call or email for courses/dates/information

919-781-5917

eMail: cgaux911pe@bellsouth.net

Web site: CoastGuardAux.com/f9_11

Boating Skills and Seamanship



This is the premier Coast Guard Course designed for power boaters

8-CLASS COURSE INCLUDES:

- **Which Boat Is For You?** - Boater's language; types of boats; outboard motors and sterndrives; hull design; uses of boats; other power plants; materials for constructing boats; your intended use; marine surveyors; buying a boat.



- **Equipment For Your Boat** - Requirements for your boat; your boat's equipment; legal considerations; substance abuse; boating accident reports; Vessel Safety Checks.



- **Trailing Your Boat** - Legal considerations; practical considerations; the towing vehicle; balancing the load; handling your trailer; pre-departure checks; launching; retrieving; storing your boat and trailer; theft prevention; Zebra mussels; float plan.



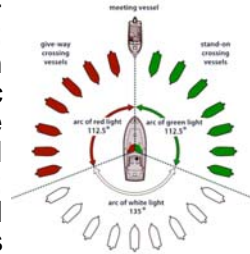
- **Handling Your Boat** - Fueling your boat; your boat's propeller; twin screws; jet drives; loading your boat; getting started; leaving a pier; "man" overboard; docking; mooring to a permanent anchor; anchoring; towing a skier.



- **Your "Highway" Signs** - What are ATONs?; buoyage systems; waterway marks; how waterways are marked; chart symbols; light structures; lights on bridges; electronic aids to navigation; navigation publications.



- **The Rules You Must Follow** - To whom do the rules apply; what is a vessel; the general responsibility rule; conduct in narrow channels; traffic separation schemes; vessel traffic services; stand-on or give-way; rules for special vessels; risk of collision; restricted visibility; vessel lights and shapes; vessels at anchor; diving operations; distress signals; drawbridge signals.



- **Inland Boating** - Inland navigation; inland seamanship; river currents; maintaining inland waterways; dams; locks; river charts; commercial traffic; before you go.

- **Boating Safety** - Accident prevention, hypothermia, sailboats and rights of way, carbon monoxide, operator responsibility, safety considerations, state and federal boating requirements.



- **Introduction To Navigation** - Piloting tools; maps and charts; chart features; your chart's general information block; other charted information; your magnetic compass; position on the earth's surface; locating a point on a chart; measuring distance; course plotting; sources of compass error; correcting a compass reading; positioning; speed-time-distance; dead reckoning.

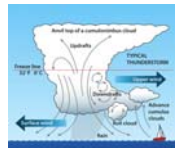
- **Powering Your Boat** - Types of marine engines; marine engines; selecting a propeller; induction systems; ignition systems; flame arresters; cooling systems; gasoline considerations; batteries; maintenance; winterizing your boat; spring fitting-out; troubleshooting.



- **Lines & Knots For Your Boat** - Line or rope; rope materials; kinds of rope; measuring rope; selecting ropes; care of rope; making up line; knots, bends, and hitches; splices; securing lines.



- **Weather & Boating** - Sources of weather information; wind and boating; wind and waves; understanding weather; weather and heat; fog; non-frontal weather.



- **Your Boat's Radio** - Radios used on boats; functions of radios; licenses; selecting, installation and operation of your VHF-FM radio; channels have special purposes; some "no no's"; copies of the rules; calling another station; procedure words; phonetic alphabet; routine radio check; distress, urgency, and safety calls; crew training.

