

# MERIT BADGE SERIES



# MOTORBOATING



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## Motorboating

1. Do the following:
  - (a) Explain to your counselor the most likely hazards you may encounter while motorboating, and what you should do to anticipate, help prevent, mitigate, and respond to these hazards.
  - (b) Explain first aid for injuries or illnesses that could occur while motorboating, including hypothermia, heat reactions, dehydration, motion sickness, bugbites, and blisters.
  - (c) Identify the conditions that must exist before performing CPR on a person, and explain how such conditions are recognized. Demonstrate proper technique for performing CPR using a training device approved by your counselor.
2. Do the following:
  - (a) Before doing requirements 3 through 6, successfully complete the BSA swimmer test.\*
  - (b) Name the different types of personal flotation devices (PFDs), and explain when each type should be used. Show how to choose and properly fit a PFD.
3. Do the following:
  - (a) Explain inboard, outboard, and inboard/outboard motors, and the uses and advantages of each. Discuss the special features of a bass boat and a ski boat.

\*See the Swimming merit badge requirements later in this pamphlet for details about the BSA swimmer test.

- (b) Explain the safety procedures and precautions involving handling fuel and engine servicing, and equipment storage and placement.
  - (c) Explain how to winterize a boat motor and tell why this procedure is necessary.
  - (d) Explain the safety procedures and precautions involving swimmers and skiers in the water, passerger positions underway, and boat wakes.
4. Show you know safety laws for motorboating by doing the following:
- (a) Have a permit to run a motorboat, if needed.
  - (b) Explain the rules or laws that apply to recreational boating in your area or state.
  - (c) Discuss how the hazards of weather and heavy water conditions can affect both safety and performance in motorboating.
  - (d) Promise that you will follow BSA Safety Afloat guidelines. Explain the meaning of each point.
  - (e) Discuss with your counselor the nautical rules of the road and describe the national and your state's aids to navigation.
  - (f) Explain and show the correct use of equipment required by both state and federal regulations to be carried aboard a motorboat.
  - (g) Explain federal and state rules for a ventilation system, and tell why these rules are required.
  - (h) Explain the use of lights (sight signals) and sound signals on motorboats.
  - (i) Discuss the common types of anchors used in motorboating and under what conditions each would be preferred. Explain proper anchoring techniques.
5. With your counselor or other adults on board, demonstrate proper boat-handling procedures and skills by doing the following:
- (a) Board and assist others in boarding.
  - (b) Fuel the boat and complete a safety check.
  - (c) Get underway from dockside or from a beach launch.
  - (d) Run a course for at least a mile, showing procedures for overtaking and passing slower craft, yielding right-of-way, passing oncoming traffic, making turns, reversing direction, and using navigation aids.
  - (e) Stop and secure the boat in position on the open water using anchors. Raise and stow the anchor and get underway.
  - (f) Land or dock the boat, disembark, and assist others in doing the same.
  - (g) Moor, dock, or beach the boat and secure all gear.

# Motorboating Resources

## Scouting Literature

*Canoeing, First Aid, Fire Safety, Fishing, Fly-Fishing, Kayaking, Lifesaving, Pioneering, Rowing, Scuba Diving, Small-Boat Sailing, Swimming, Waterskiing, Weather,* and *Whitewater* merit badge pamphlets; *Boy Scout Handbook* and *Fieldbook*

Visit the Boy Scouts of America's official retail website at <http://www.scoutstuff.org> for a complete listing of all merit badge pamphlets and other helpful Scouting materials and supplies.

## Books

- Aarons, Richard N. *Small-Boat Seamanship Manual*. International Marine/Ragged Mountain Press, 2006.
- American Red Cross. *American Red Cross First Aid: Responding to Emergencies*. Staywell, 2007.
- Armstrong, Bob. *Getting Started in Powerboating*. International Marine/Ragged Mountain Press, 2005.
- Browne, Steven D. *Nautical Rules of the Road: The International and Inland Rules*, 4th ed. Cornell Maritime Press, 2006.
- Larkin, Frank J. *Basic Coastal Navigation: An Introduction to Piloting*, 2nd ed. Sheridan House, 1998.
- Low, Charles T. *Boat Docking: Close Quarters Maneuvering for Small Craft*. Harvey Island Enterprises, 1997.
- Maloney, Elbert S. *Chapman Piloting and Seamanship*, 67th ed. Hearst, 2013.
- Siminoff, Roger H. *Boating 101: Essential Lessons for Boaters*. International Marine/Ragged Mountain Press, 1999.
- Stagner, Eugene. *Understanding the Outboard Motor*, 3rd ed. Prentice Hall, 2002.
- Thompson, Luke. *Essential Boating for Teens*. Children's Press, 2000.
- U.S. Sailing Association. *Start Powerboating Right!* United States Sailing Association, 2011.

## DVDs

The following DVDs are available from Bennett Marine Video (website: <http://bennettmarine.com>):

*Back to the Basics of Boating*

*Back to the Basics: Improving Your Boating Skills and Knowledge*

*Back to the Basics: What to Do When Things Go Wrong*

*Boating Basics for First-Time Boaters*

*The Encyclopedia of Boating Tips*

*On-the-Water Boating Tips*

*100 Boating Mistakes and How to Avoid Them*

*Top 60 Boat-Handling Tips*

## Organizations and Websites

### North American Safe Boating Campaign

Website: <http://www.safeboatingcampaign.com>

### U.S. Coast Guard Auxiliary

Website: <http://www.cgaux.org>

### U.S. Coast Guard Boating Safety Resource Center

Website: <http://www.uscgboating.org>

### U.S. Sailing Association

15 Maritime Drive

P.O. Box 1260

Portsmouth, RI 02871-0907

Website: <http://www.ussailing.org>

## Acknowledgments

This edition of the *Motorboating* merit badge pamphlet was written by K. Gregory Tucker, Readyville, Tennessee. The Boy Scouts of America thanks this devoted Scouter, who is a Silver Buffalo Award recipient and past BSA Health and Safety Committee chair. As a volunteer, Mr. Tucker has written or contributed to a number of merit badge pamphlets on aquatics and health-related topics.

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## Photo and Illustration Credits

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(*Type I life jacket*)

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