Previous Version - ANSI/NASBLA 103.1-2018 - Supplement - Basic Boating Knowledge - Water-Jet Propelled



This National Boating Education Standard, as overseen by the National Boating Education Standards Panel (ESP), is the product of voluntary consensus of representatives of federal and state government, industry, nonprofit organizations, and public sectors. It is intended as a guide to aid the boating community in the design and implementation of boating courses and boater education.

ESP will review this standard at least every five years, at which time it may be reaffirmed, revised, or withdrawn. ESP welcomes written comments on the Standard during open public comment periods via http://esp.nasbla.org/esp/. Requests for interpretation may be submitted at any time via esp@nasbla.org.

American National Standard

ANSI/NASBLA 103.1-2022: Supplement - Basic Boating Knowledge – Plus Water-Jet Propelled





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NOTE: Membership on a panel or committee shall not in and of itself constitute an endorsement of the National Association of State Boating Law Administrators (NASBLA) or any document developed by the panel or committee on which the member serves.

This standard was developed under procedures of essential requirements for the American National Standards Institute. The Panel that approved the standard was balanced based on interest categories to ensure that individuals representing those with material interests in the standard had an opportunity to participate.

This standard, which is the result of extended and careful consideration of available knowledge and experience on the subject, is intended to provide minimum performance requirements.

National Boating Education Standards Panel meetings are open to the public. All contact regarding standards activity, interpretations, or meeting attendance should be directed to NASBLA ESP Staff at esp@nasbla.org.

REQUEST FOR INTERPRETATIONS

Upon written request, the Education Standards Panel will render an interpretation of any requirement of the standard. The request for interpretation should be clear and unambiguous. Requests should be presented to the ESP in a manner in which they may be answered in a "yes" or "no" fashion.

The Panel reserves the right to reconsider any interpretation when or if additional information which might affect it becomes available to the ESP. Persons aggrieved by an interpretation may appeal to the Panel for reinterpretation.

REQUEST FOR APPEALS

Any directly and materially affected interest who believe they have been or will be adversely affected by a Standard, or by the lack thereof, shall have the right to appeal substantive or procedural actions or in actions of the National Boating Education Standards Panel per Part XII of the <u>Panel Rules</u> (latest version) posted at <u>www.nasbla.org</u> under Advocacy > National Education Standards. As stated in the Rules, prior to the filing of a formal appeal, communication of the alleged actions or inactions, with mutual effort to informally resolve the dissatisfaction, shall be attempted and documented.

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FOREWORD

This standard defines general, entry-level knowledge a boater should possess for safe recreational boat operation. This consensus-based standard is designed to support course providers and raise the overall level of quality, availability, and consistency of instruction in entry-level recreational boater knowledge. This standard functions within a national system of standards for recreational boat operation.

It is recommended this standard be used in conjunction with any accompanying Technical Report.

The standard is organized as follows:

- The numerical identifiers assigned to each element are for ease of reference only, and they do
 not imply any sequential process of learning or that the information only applies to that
 particular section.
- Individual numbered elements are organized for ease of reference. Each individual numbered element can be applied within other elements during design and delivery of instruction.
- All items listed after the word "including" are requirements of the standard. Additional items may be added.

REFERENCES

The following is a listing of all American National Standards for Basic Boating Knowledge. Additional listed references provide content to supplement this standard for specific boat types. Unless otherwise noted the latest version of referenced standards shall apply. NOTE: Per ANSI Essential Requirements, identification of products or services is not an endorsement of those products or services or their suppliers.

Source: NASBLA - National Association of State Boating Law Administrators, 1020 Monarch, Suite 200, Lexington, KY 40513. Phone: (859) 225-9487. Standards and ANSI-Registered Technical Reports are available at www.nasbla.org.

- 100-2022, Basic Boating Knowledge Core
- 101-2022, Basic Boating Knowledge Plus Human-Propelled
- 102-2022, Basic Boating Knowledge Plus Sailing
- 103-2022, Basic Boating Knowledge Plus Power
- 103.1-2022, Supplement Basic Boating Knowledge Plus Water-Jet Propelled

The following American National Standards for on-water boating skills provide information to guide onwater skill training which can be used to supplement the knowledge standards.

Source: ABYC - American Boat & Yacht Council, Inc., 613 Third Street, Suite 10, Annapolis, MD 21403. Phone: (410) 990-4460. Website: www.abycinc.org.

- EDU-1, On-Water Recreational Boating Skills Power
- EDU-2, Skill-Based Human-Propelled Standard
- EDU-3, Skills-Based Sailboat Standard
- EDU-4, On-Water Instruction Standard

Education providers are also encouraged to use the National On-Water Standards (NOWS) Technical Support Documents (TSDs) that accompany each standard to support the design and implementation of on-water entry-level instruction. These documents are available for free download at www.usnows.org.

DEFINITIONS

For the purpose of this document the following definitions apply:

accident (n) – 1) An unforeseen and unplanned event or circumstance. 2) In boating, a general term referring to a recreational boating event that results in an injury, fatality, property damage, and/or vessel that is a total loss. (Note: The boating safety community, including Marine Law Enforcement Agencies, are transitioning away from "accident" and to the term "incident.")

beginner (n) – A novice who has begun a course of instruction or is learning the fundamentals.

boat (n) – A small vessel for travel on water; Includes every description of watercraft used or capable of being used as a means of transportation on water.

boat (v) – To place in or bring into a boat, to go by boat.

entry-level (adj) – Of or being at the lowest level of hierarchy. The proficiency reached by a person who has successfully completed an appropriate amount of beginner instruction, or has achieved a sufficient level of experience, to be ready to pursue (or "enter" safely into) recreational boating.

human-propelled vessel (n) – Any vessel propelled by human power, typically with oars or paddles.

incident (n) – An occurrence of an action or situation that is a separate unit of experience. Something dependent on or subordinate to something else of greater or principal importance. Also see "Accident".

knowledge (n) – Cognitive outcome of the learning process usually tested by verbal or written questions.

go-no-go (adj) – Being or relating to a required decision to continue or stop a course of action. Being or relating to a point at which a go-no-go decision must be made.

passenger (n) – Any person onboard, excluding the operator.

power-driven vessel (n) – Any vessel propelled by machinery.

sailing vessel (n) – Any vessel under sail provided that propelling machinery, if fitted, is not used.

standard (n) – According to the American National Standards Institute, 1) a recognized unit of comparison by which the correctness of others can be determined; 2) a set of characteristics or qualities that describes features of a product, process, or service.

skill (n) – The learned capacity, aptitude, or ability to do something.

underway (adj)—occurring, performed, or used while traveling or inmotion.

underway (adv) – In motion: not at anchor or aground. A vessel is not at anchor, or made fast to the shore, or aground.

water-jet propelled vessel (n) — Any vessel propelled by machinery which powers a pump producing a jet of water.

vessel (n) –Any watercraft, including nondisplacement craft and seaplanes, used or capable of being used as a means of transportation on water.

American National Standard Supplement - Basic Boating Knowledge - Plus Water-Jet Propelled

Scope

This discipline-specific supplement standard, when combined with the "Basic Boating Knowledge – Core" AND "Basic Boating Knowledge - Plus Power" standards, establishes minimum essential knowledge to reduce recreational risk factors for water-jet propelled watercraft operation. The combined standards are to be used for development of basic boating education courses and student assessment for water-jet propelled powerboats. This standard applies to basic water-jet propelled boating knowledge in the U.S. states, territories, and the District of Columbia.

Description: This supplement focuses on operational characteristics of two principle water-jet propelled vessels currently available to the recreational boating public; Personal Watercraft (PWC) and Jet Boats. Water Jet-Pack types of vessels such as Jet-Lev, Fly-Boards and Hover Boards are <u>not</u> addressed in this education standard.

1. Terminology

1.1 - See "Basic Boating Knowledge - Core" (latest version)

1.2 Discipline Specific

1.2.1 - See "Basic Boating Knowledge - Plus Power" (latest version)

2.0 Boat Types and Characteristics

2.1 through 2.4 - See "Basic Boating Knowledge - Core" (latest version)

2.5 Discipline Specific

- 2.5.1 See "Basic Boating Knowledge Plus Power" (latest version)
- 2.5.2 Describe how a water-jet propelled propulsion system works.
- 2.5.3 Describe how to determine acceptable loading, passenger and operator placement based on:
 - capacity and related information;
 - passenger placement and special considerations such as occupant balance points;
 and
 - legal requirements for observer and seating placement.

2.5.4 Describe start-up, shut down, operating controls and characteristics.

3.0 Required Equipment

3.1 through 3.3 - See "Basic Boating Knowledge - Core" (latest version)

3.4 Discipline Specific

3.4.1 through 3.4.4 - See "Basic Boating Knowledge - Plus Power" (latest version)

4.0 Trip Planning and Preparation

4.1 through 4.10 - See "Basic Boating Knowledge - Core" (latest version)

4.11 Discipline Specific

- 4.11.1 through 4.11.4 See "Basic Boating Knowledge Plus Power" (latest version)
- 4.11.5 Describe the need for regular preventative maintenance.

5.0 Safe Boat Operation

5.1 through 5.5 - See "Basic Boating Knowledge - Core" (latest version)

5.6 Discipline Specific

- 5.6.1 through 5.6.3 See "Basic Boating Knowledge Plus Power" (latest version)
- 5.6.4 Describe the hazards of jet intake and wash relative to safety risks to a person near a jet intake and exit, including focused stream of water to any swimmer or object, and zone of awareness.
- 5.6.5 Describe common practices for docking, mooring and beaching a water-jet propelled watercraft.

5.6.6 Describe water-jet propelled watercraft operational characteristics, including:

- slow (idle speed) operation and maneuvering;
- braking;
- reverse;
- neutral;
- constant motion when engine is running (transmission in neutral);
- stopping the boat's motion (station keeping);
- operation in shallow water (maintain manufacturer's recommended minimum water depth);
- boarding and disembarking boat safely;
- use of retractable rear step and stowage;
- high speed operational control issues;
- dangers of operating beyond skill and ability of operator;
- weight capacity passenger overloading; and
- understanding weather conditions and changing water effects for safe operations while underway.

6.0 Navigation

6.1 through 6.4 - See "Basic Boating Knowledge - Core" (latest version)

7.0 Emergency Preparedness and Response

7.1 through 7.6 - See "Basic Boating Knowledge - Core" (latest version)

7.7 Discipline Specific

7.7.1 - See "Basic Boating Knowledge - Plus Power" (latest version)

7.7.2 Describe how to prevent capsizing including these factors:

- stern wake;
- environmental conditions (water state and wind);
- turning; and
- load versus thrust.

7.7.3 Describe the process for righting a capsized personal watercraft.

8.0 Other Water Activities

8.1 through 8.2 - See "Basic Boating Knowledge - Core" (latest version)

8.3 Discipline Specific

8.3.1 - See "Basic Boating Knowledge - Plus Power" (latest version)

9.0 Environmental Concerns

9.1 through 9.2 - See "Basic Boating Knowledge - Core" (latest version)

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Origin and Development of Basic Boating Knowledge - Plus Water-Jet Propelled

ANSI/NASBLA 100-2022: Supplement - Basic Boating Knowledge – Plus Water-Jet Propelled was developed in 2019-2022 by the National Boating Education Standards Panel. It was adapted from work previously compiled by the Education and Outreach Committee of the National Association of State Boating Law Administrators and from other organizations within the boating education community.

This standard represents, as of the date of publication, the consensus of knowledgeable persons, currently active in the field of small craft, on knowledge components that contribute to small boat safety. The National Boating Education Standards Panel assumes no responsibility whatsoever for the use of, or failure to use, standards or technical information reports promulgated by it, their adaptation to any processes of a user, or any consequences flowing therefrom.

Prospective users of the standards and technical information reports are responsible for protecting themselves against liability. The National Boating Education Standards are guides to achieving a level of knowledge and are not intended to preclude attainment of desired results by other means.

ANSI/NASBLA 103.1-2022: Supplement - Basic Boating Knowledge – Plus Water-Jet Propelled (Incorporates accepted and accepted in principle comments from review periods ending 12/5/2019, 9/29/2020, 3/1/2021, and 6/21/2021.). Accepted by Panel via Consensus Ballot – 6/21/21. ANSI recognized as American National Standard – 2/10/2022.