



# Pennsylvania State Fire Academy

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## Minimum Standard for Accreditation (MSA)

Revised April 2010  
Revised February 2011

**Course Title:** Emergency Boat Operations and Rescue – NFPA 1670 Technician Level

**Course Code** EBOR (old phase II)

**Length of Course:** 16 Hours

**Lecture/Lab Breakdown:** 4.5 hrs/11.5 hrs

**Prerequisites:** WRER (Water Rescue & Emergency Response – NFPA 1670 Operations Level) **and** PA Basic Boating Certificate or NASBLA Approved equivalent.

**Referenced Texts:** Emergency Boat Operations and Rescue Instructor Lesson Plan

**Course Goal:** Students will become proficient with boat operation skills, techniques and tactics necessary for boat used rescue.

**Description of Course:** This 16 hour program involves skills of boat operation for rescue including boat selection, recommended equipment, boat handling, boat used rescue technique, and extrication from the water.

**Description of Methodology:** Audiovisual presentation, lecture, demonstration, pool & outdoor practical exercises.

**Student Equipment/Supply Needs:** Pen/Pencil, notebook, USCG approved type V personal flotation device (PFD), properly outfitted water rescue helmet, & proper PPE.

**Equipment/Audiovisual/Supply requirements:** Classroom, chalkboard, screen, projector, and monitor. A moving water site with sufficient depth and width, reasonably free and clear of dangerous obstructions and hazards and with the appropriate conditions as to allow the students to practice the maneuvers outlined in the lecture is required. This site is to be chosen by the instructor(s) and inspected by same prior to the class.

### **Special Notes & Conditions:**

Training site shall be an open water site that has easy access, is free of hazards, has sufficient depth and is moving water.

### **Enrollment/Instructor Requirements:**

Two (2) instructors shall be present for each 12 students in a class. (i.e 1-12 students = 2 instructors; 12-16 students = 3 instructors). Additional safety, logistic and medical personnel highly recommended for course support during practical exercises.

Minimum 18 years of age.

## MINIMUM STANDARDS FOR ACCREDITATION

*Emergency Boat Operations and Rescue – NFPA 1670 Technician Level*

February 2011

### **COURSE OUTLINE**

<b><u>Topic</u></b>	<b><u>Time</u></b>
Unit 1: Rescue Boat Selection, Outfitting, and Maintenance	2 hrs
Unit 2: Water Dynamics	30 minutes
Unit 3: Rescue Boat Operations	1 hr
Unit 4: Rescue Boat Tactics	1 hr
Session I Practical Skills Practice	3 ½ hrs
Session II Outdoor Practical Session	8 hrs
Total Time	16 hrs

**Competency Evaluation Mechanism:** Complete all risk management forms, attend all course components, participate in and demonstrate all skills as detailed on the Emergency Boat Operations and Rescue Skill Sheet and score an 80% or better on the written test.

### **Learning Outcomes (Behavioral Objectives):**

1. Compare the advantages and disadvantages of various boat designs.
2. Identify the correct boat terminology to describe parts of a boat.
3. Compare the advantages & disadvantages of propeller drive units vs jet drive units.
4. Identify five common maintenance problems associated with boats & motors.
5. List six equipment items found on board a rescue boat.
6. Properly outfit a rescue boat (complete during outdoor session).
7. Demonstrate a proficiency in the use of the rescue equipment found on board a typical rescue boat.
8. List & describe six common moving water features.
9. Describe the hazard(s) found at the base of a low-head-dam or drop off on a river.
10. Illustrate the proper route to follow through a mock water site.
11. Explain and demonstrate how to “read” moving water & maneuver a boat (powered or unpowered) through designated training areas.
12. Demonstrate basic boat handling through a prescribed course (slalom & English gates).
13. Demonstrate coming along side through a prescribed course.
14. Demonstrate boat handling skills in moving water. Operator must be able to perform the following: eddy turns, peel outs, ascending & descending a current, and ferrying.
15. Describe the proper procedure to minimize the change of swamping or capsizing when the rescue boat encounters a strainer or obstruction (ie rock/bridge pier, tree, etc.)
16. Perform a boat-over-boat rescue & assist victims(s) back into their boat.
17. Rescue a victim from a mid-stream obstruction (ie island, rock, strainer, etc.)
18. Right a capsized boat using a single or double flip line technique.
19. Assist a victim into rescue boat using both stirrup & roll aboard techniques.

Questions/Comments: Contact the PA State Fire Academy Assistant Administrator