



# Pennsylvania State Fire Academy

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## Minimum Standard for Accreditation (MSA)

August 1999

Revised August 1999 - PFBC, Angstadt

Revised for Format Only – August 1999 – SFA, Wessel

**Course Title:** Line Systems Rescue Phase III (FCLS) (PA Fish & Boat Commission)

**Length of Course:** 12.5 Hours

**Lecture/Lab Breakdown:** 7.0/5.5

**Prerequisites:** FCWR

**Referenced Texts:** Line Systems Rescue Phase III Instructor Guideline

**Course Goal:** Students will become proficient with horizontal line system rescue techniques.

**Description of Course:** This 12 hour program involves skills needed to set up and understand horizontal line systems used in advanced water rescue operations .

**Description of Methodology to be used: (Brief)** Lecture, audiovisual presentation, demonstration and practical exercises.

**Student Equipment/Supply Needs:** Pen/Pencil, Notebook, personal flotation device w/ whistle, water rescue helmet, appropriate "Get Wet" clothing for prevailing environmental conditions, wet suit / dry suit if possible (dictated by prevailing environmental conditions ),water proof bag containing a set of warm clothing to change into.

**Equipment/Audiovisual/Supply requirements:** Classroom, chalkboard, screen, slide projector, VCR 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 instructors) and inspected by same prior to the class.

### COURSE OUTLINE (General - Not Detailed)

Time		Content
:30	Session 1	Registration ( <b>NOT PART OF THE PFBC COURSE</b> )
:30	Session 2	Lines
1:00	Session 3	Knots
continued		

**COURSE OUTLINE (Con't)**

:30	Session 4	Rescue and Rigging Equipment
:30	Session 5	Anchors and Anchor points
1:30	Session 6	Z Drag System
1:30	Session 7	Static Line Rescue Techniques ( MCP, Dynamic Ferry and Zip Line )
5:30	Session 8	Moving Water Practical
1:00	Session 9	Evaluations, Certification and Conclusion

**Competency Evaluation Mechanism :**

Evaluation of Line Systems proficiency and physical performance. ( Administered by Instructor (s) )

**Course Objectives (specific):**

Upon completion of this course, the students will:

1. Identify the different types of line used in Line System Rescue Systems
2. Explain advantages and disadvantages of each type of line.
3. Understand correct line maintenance procedures.
4. Correctly tie a Bowline, figure eight on a bight, water knot, double fisherman and a prusik knot.
5. Learn the specific uses for these knots.
6. Become familiar with various types of rescue and rigging equipment.
7. Demonstrate a working knowledge of the proper use of this rescue and rigging equipment.
8. Evaluate a potential accident site in terms of choosing good anchor points and rigging anchors for the appropriate types of rescues.
9. Identify different types of anchor situations.
10. Understand the process for setting up a Z drag pulley system and identify the hardware used in the system.
11. Understand the process for setting up and utilizing the dynamic ferry.
12. Understand the process for setting up the Moveable Control Point or MCP system.
13. Understand the process for setting up a Zip Line.