



Pennsylvania State Fire Academy

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Minimum Standard for Accreditation (MSA)

September 1993
Revised Sept. 2000

Course Title: Advanced Fire Fighting (AFF)

Length of Course: 30 Hours

Lecture/Lab Breakdown: 20/10

Prerequisites: EBM (or its predecessor, FFF)

Referenced Texts: IFSTA "Essentials of Fire Fighting", 4th edition; "Advanced Fire Fighting Course - Instructor Guide", State Fire Academy.

Course Goal: The student will be able to grasp more advanced concepts of basic firefighting knowledges/skills introduced to him/her in the course prerequisite.

Description of Course: This course continues along the path to a complete basic fire fighting education by introducing advanced concepts and techniques in such areas as ventilation, building construction, water supply, and fire control. The basic "whys and hows" of fire ground tactical operations are introduced as well.

Description of Methodology to be used: (Brief) A combination of lecture, demonstration, and supervised practice.

Student Equipment/Supply Needs: Pen/Pencil and notebook suitable for field notes; full protective clothing including SCBA.

Equipment/Audiovisual/Supply requirements: Classroom with adequate seating; AV equipment as needed to support AV choices of the instructor. Other facilities equipment and supplies are listed for each specific lesson in the Instructor Guide for the course.

COURSE OUTLINE **(General - Not Detailed)**

<u>Time</u>	<u>Content</u>	<u>Notes</u>
3:00	Fire Ground Practices - Fire Fighting Tactics	
3:00	Building Construction & Fire Behavior	
3:00	Fire Fighting Ventilation Practices	
3:00	Water Supply Systems	
3:00	Fire Ground Water Movement & Control Practices	
3:00	Sprinkler Systems & Stand Pipes	
3:00	Fire Ground Rescue Practices	
3:00	Pre-Planning; Information Development	

(continued)

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3:00 Pre-Planning Fire Attacks; Finalization

3:00 Liquid Fuels Fire Fighting Practices

Competency Evaluation Mechanism (Brief description): Instructor assessment of student's grasp of knowledge objectives through questioning; observation of student performance during practical exercises.

Course Objectives (specific): Upon completing this course, the student shall be able to:

1. Form an initial response fire ground organization using the Incident Command System; identify officers, their functions and specific responsibilities; and participate in an effective fire fighting procedures employing modern tactics.
2. Describe or identify types of building construction commonly used in fire response area; explain in simple terms the fire effect of various construction materials; and describe the manner and results of spread and behavior.
3. Identify the stages of fire and respond with the appropriate suppression and control actions; and apply proper equipment for gas and heat movement and atmosphere control as occurs in structural fire behavior.
4. Identify the components of a hydrant system and their functions; determine hydrant and system flows; and locate and determine accessibility and potential supply of streams and ponds.
5. Identify hose size with practical flow; and make necessary attachments to hydrants, pumpers, portable pumps, porta-tanks and streams.
6. Identify sprinkler and stand pipe system types; and make necessary attachment for supplementing a system under alarm.
7. Identify proper protective clothing and its limitations; recognize and react safely to the usual and regular live fire ground personnel hazards; and perform minimal first aid medical tasks as well as assisting emergency medical technicians.
8. Give an account of a basic procedure for development of a pre-plan; and perform first stages of the development of an assigned pre-plan site.
9. Construct, for evaluation, a complete actual site pre-plan assigned; and participate in a discussion of completed pre-plans on site and classroom evaluations.
10. Identify properties, classifications and extinguishing methods of flammable liquids; and perform extinguishment tasks under the direction of a competent, informed officer.

AFF