



Pennsylvania State Fire Academy

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Minimum Standard for Accreditation (MSA)

July 1992

Course Title: Industrial Fire Brigade, Extended (IFBX)

Length of Course: 16 Hours

Lecture/Lab Breakdown: 5/11

Prerequisites: None

Referenced Texts: IFSTA Essentials, IFSTA Industrial Fire Protection, NFPA Industrial Fire Brigades, NFPA-10, 13 and 1403.

Course Goal: Provide fire brigade training to the interior structural level per the OSHA Guidelines.

Description of Course: Course covers or refreshes all items covered in the Basic Fire Brigade Training Program, plus self-contained breathing apparatus, ropes and knots, ladders, search and rescue practices, and interior structural fire fighting exercises. Some exercises using pre-planned evolutions.

Description of Methodology to be used: (Brief) Classroom lecture and field lecture, extensive hands-on participation and live fire fighting exercises inside and outside.

Student Equipment/Supply Needs: Full turn-out gear, including SCBA.

Equipment/Audiovisual/Supply requirements: Slide projector, television and VCR, hose line and extinguisher fire props, and structural burn building for live fire exercises. Flammable liquid burn pit, water supply, air supply and adequate extinguisher supplies.

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

<u>Time</u>	<u>Content</u>	<u>Instructor Notes</u>
4:00	Introduction Safety Presentation/Danger - Fire Fighters at Work (Slides) Portable Fire Extinguishers (Video) Review of Fire Hose - Types and Construction	

continued

COURSE OUTLINE continued
(General - Not Detailed)

<u>Time</u>	<u>Content</u>	<u>Instructor Notes</u>
	Review of Fire Hose Couplings and Spanner Wrenches Review of Fire Hose Nozzles - Electrically Safe Combination Nozzles Review of Fire Hose House and Reel Loading Arrangements Review of Fire Hydrant Operation and Use Fire Hose, Rolls, Carries and Coupling Procedures 1-1/2" Hose Line Operation Drill Handling and Operating 2-1/2" Hose Lines Spray Energized 69KV Grid with 1-1/2" Hose Lines and Electrically Safe Nozzles	
4:00	Portable Extinguisher Fire Fighting Exercises Fire Fighting With 1-1/2" Hose Lines Fire Attack at Sprinklered Properties (Slides), Self-Contained Breathing Apparatus - Principles of Operation, Practical Exercise Using Self-Contained - Breathing Apparatus in Maze, Practical Exercise to Isolate and Control - A Flowing Sprinkler Head	
8:00	Principles of Ventilation (Video) Structural Fire Attack (Film) Discussion of Fire Attack Methods and Procedures Structural Fire Fighting and Rescue Evolutions Hazardous Materials Found on the PP&L System Principles of Fire Fighting With Foam Fire Fighting Exercises - PIT Fire Using Foam Wheeled Dry Chemical Extinguishers Operation and Usage Fire Fighting Exercises - Fire using Wheeled Dry Chemical Extinguisher	

COURSE OUTLINE continued
(General - Not Detailed)

<u>Time</u>	<u>Content</u>	<u>Instructor Notes</u>
	Fire Fighting Exercises - Flammable Compressed Gas SCBA Clean-up and Protective Equipment Restoration Fire Prevention Film	

Competency Evaluation Mechanism (Brief description-attach copy): Successful completion of each hands-on exercise.

Course Objectives (specific): Upon completion of this course, the student should be able to:

1. Master all competencies listed in IFBB, Basic Industrial Fire Brigade Training.
2. Demonstrate the need for and use of self contained breathing apparatus and explain its operations and donning procedure.
3. Explain the need for ventilation, and demonstrate the use of natural and mechanical ventilation.
4. Demonstrate the proper hose stream selection and operation in extinguishing different types of fires.
5. Demonstrate the proper raise, lower and climb of a ground ladder.
6. Tie the three basic fireground knots, and demonstrate their use in fireground evolutions.
7. Demonstrate the use of firefighting foam, and its application on a flammable or combustible liquid fire.
8. Demonstrate the successful stabilization of a flammable gas exercise using valve control.
9. Demonstrate proper fireground search and rescue procedures.

**Questions/Comments: Contact Rita Wessel, Curriculum Specialist: Extension 106
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