



# Pennsylvania State Fire Academy

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## Minimum Standard for Accreditation (MSA)

March 1993

**Course Title:** Industrial Fire Brigade - Comprehensive (IFBC)

**Length of Course:** 24 Hours

**Lecture/Lab Breakdown:** 8/16

**Prerequisites:** IST and IFBX

**Referenced Texts:** IFSTA Essentials; IFSTA Industrial Fire Protection; IFSFI Industrial Fire Control Concepts; IFSTA Private Fire Protection; NFPA Codes, standards and handbooks

**Course Goal:** Provide fire brigade training to the interior structure level per the OSHA Guidelines and to interior structure fire fighting per NFPA 600. (Note both OSHA and NFPA 600 require quarterly drills and NFPA 600 also requires live fire drills be conducted at least annually. The training presented in this course does not cover the annual live drill required by NFPA 600.)

**Description of Course:** Course reviews all the items covered in the Industrial Fire Brigade Extended Course and also pre-emergency planning, advancing hose up ladders and stairways, forcible entry, rescue, salvage and overhaul, automatic sprinkler systems, fire inspection, incident management system and pump operations.

**Description of Methodology to be used: (Brief)** Classroom and field lecture, hands on participation and live fire training exercises.

**Student Equipment/Supply Needs:** Full turn-out gear which includes, but not limited to helmets, protection for ears & neck, coat and/or bunker pants, gloves, boots, personal alert safety system-PASS, and a NIOSH approved SCBA. The equipment shall meet the requirements of the appropriate NFPA standard.

**Equipment/Audiovisual/Supply requirements:** Slide projector, TV and VCR, overhead projector and student pass out material. Also needed is the proper tools/equipment for performing the necessary evolutions.

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

**Time**

**Content**

**Instructor**  
**Notes**

4:00

Introduction

continued

MINIMUM STANDARDS FOR ACCREDITATION

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

<b><u>Time</u></b>	<b><u>Content</u></b>	<b><u>Instructor Notes</u></b>
4:00	Review of the companies written fire brigade organizational statement. This review shall discuss the duties expected of the fire fighters including limitations and the SOP. Fire Fighter Safety Review of fire fighter fundamentals from IFBB & IFBX as applicable to this facility. The review should consider, fire chemistry and behavior, portable fire extinguisher, ropes and knots, fire hose and streams, ladders, ventilation, foam, automatic nozzles, SCBA, etc.	
4:00	Hands on use of the review items discussed above as applicable to the facility.	
4:00	The ICS as used at the facility. It should be documented in the SOP. Pre-Emergency Planning Salvage and overhaul operations noting location of equipment. Special Fire Protection Systems in use at the facility which include dry powder, dry chemical, CO <sub>2</sub> , halon, smoke & heat detectors, IR detectors etc.	
4:00	Fire control strategy and tactics Fire hose operations at standpipes Advancing fire hose up ladders & stairs Hands on of the items discussed above operations using the ICS, using pre-emergency plans in determining fire control and extinguishment, proper salvage cover use and removal of excess water, etc.	
4:00	Operation of fire apparatus at the facility. Hazardous Material and their locations at the plant. Also special protection features of these hazardous materials. Site specific water supply Inspection requirements for sprinkler systems, special systems, SCBA, etc. Conducting fire inspections	

Continued

MINIMUM STANDARDS FOR ACCREDITATION

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

<b><u>Time</u></b>	<b><u>Content</u></b>	<b><u>Instructor Notes</u></b>
4:00	Hands on operation of fire apparatus from facility water sources. Simulated hazardous material drill emphasizing the limitations of the fire brigade during these types of emergencies. Perform fire inspection listing any defects found and potential solutions.	

**Competency Evaluation Mechanism (Brief description-attach copy):** Instructor assessment of student performance during practical exercises; written examination as devised per Educational Training Agency Policy.

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

1. master all competencies listed in IFBB & IFBX Industrial Fire Brigade Training.
2. demonstrate the proper inspection and maintenance of SCBA.
3. demonstrate the proper inspection of fire ladders.
4. demonstrate the proper entry through doors, windows, etc. at their business.
5. demonstrate the proper techniques for rescue in areas of his business where a rescue may be used.
6. identify the water supply for his plant.
7. show the proper operation of the fire apparatus at his plant.
8. demonstrate the proper use of appliances at his plant.
9. demonstrate the proper covering of equipment for salvage operations.
10. demonstrate the proper closing of PW valves or sprinkler control valves.
11. given a building, prepare a pre-emergency plan for the structure.
12. identify fire deficiencies during an inspection of a building.

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