Minimum Standard for Accreditation (MSA)

Course Title: Foam Fire Fighting Basic (National Foam)

SFA Course Code: NFFB

Length of Course: 7 Hours

Lecture/Lab Breakdown: 3.5/3.5

Prerequisites: ELIF or EBM

Referenced Texts: National Foam, Inc. Instructional Package

Course Goal/Description: A student in this course will be introduced to basic information concerning the use foam, as flammable liquid fire extinguishing agent. This module is targeted at the first responder, who will be faced with the task of fire suppression.

Description of Methodology to be used: (Brief) Combination of lecture, guided discussion, and demonstration. The course is divided into 2 modules and delivered sequentially.

Student Equipment/Supply Needs: Pencil or pen, note pad, and turn out gear.

Equipment/Audiovisual/Supply requirements: Chalkboard, VCR with monitor, 35 mm carousal slide projector and screen, a large table for demonstration; AV kit for course in question (available from National Foam, Inc.)

Field Evolution Equipment Requirements: Pumper, foam concentrate, hose, line proportioner, a 5 gallon clear pail, fog nozzle, air-aspirating foam nozzle and a mid expansion foam nozzle or attachment.

Course Outline
(General Not Detailed)

MODULE I - CLASSROOM LECTURE, 3.5 Hours

1. History of Foam, Chemical Foams, Mechanical Foams
2. Foam Terminology, Concentrate, Solution, Finished Foam
3. Understanding the Hazard, Flammable Liquids, Hydrocarbons, Polar Solvents, Blended Fuels

continued
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COURSE OUTLINE continued
(General - Not Detailed)

4. Line Proportioners
5. Aspirating v/s Non-Aspirating Nozzles

MODULE II - FIELD PRACTICAL EVOLUTION'S, 3.5 Hours

Eductor Objectives
- Basic set up
- Eductor Failures
- Gate Back Nozzle Bale
- Mis-Matched Nozzle to Eductor
- Incorrect Line Pressure
- Length of Hose Lay
- Elevation
- Kinked Hose Lines

Nozzle Objectives
- Non Air-Aspirating Structural Fog Nozzles
- Fog Nozzles with Foam Attachments
- Low and Mid Expansion Foam Nozzles

Stream Reach
- Non Air-Aspirating Structural Fog Nozzles
- Fog Nozzles with Foam Attachments
- Low and Mid Expansion Foam Nozzles

Application Techniques
- Bank-In
- Bounce Off
- Rain Down

Competency Evaluation Mechanism (Brief description-attach copy): 100%
attendance; 72% on written test.

Student Knowledge Objectives: The student shall have an understanding of:

1. how foam is used to control and extinguish flammable
2. foam concentrate percentages.
3. proper application techniques.
4. selecting the proper foam concentrate for a given
5. flammable liquids.
Student Skill Objectives: The student shall demonstrate the ability to:

1. properly set-up and use foam by means of a line proportioner.
2. roll a finished foam blanket onto a fire.
3. apply foam using the rain-down method.
4. apply finished foam by the banking method.
5. troubleshoot line proportioner failures.
6. properly clean and maintain the foam appliances after use.
7. visually determine properly expanded finished foam and the difference between low and medium expanded finished foam.

Questions/Comments: Contact the Curriculum Specialist