



Pennsylvania State Fire Academy

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Minimum Standard for Accreditation (MSA)

July 1992

Course Title: Electrical Emergencies (ELFS)

Length of Course: 3 Hours

Lecture/Lab Breakdown: 3/0

Prerequisites: None

Referenced Texts: NFPA Fire Protection Handbook, PA Power and Light Co. "Guide to Electrical Fires and Other Emergencies".

Course Goal: Educate emergency response personnel to the dangers of electricity and establish proper guidelines for handling electrical emergencies.

Description of Course: Slide presentation of electrical hazards, distribution systems, power plants and related electrical equipment. Review of fire fighting practices around energized equipment, as well as do's and don'ts in dealing with electricity. High voltage electrical demonstration.

Description of Methodology to be used: (Brief) A review of electricity, and visual display of common electrical equipment found in the community is shown, with common problems discussed. This is reinforced by using the High Voltage "Oscar and the Hot Wires" demonstration.

Student Equipment/Supply Needs: None

Equipment/Audiovisual/Supply requirements: Slide projector, screen, television and VCR, high voltage electrical display.

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

<u>Time</u>	<u>Content</u>	<u>Instructor Notes</u>
2:00	Slide Presentation - Electrical Distribution System	
:50	Oscar and The Hot Wires, High Voltage Demonstration	
:50	Video Presentation, Fire Fighter and Electricity, Exploding Meters	

(continued)

MINIMUM STANDARDS FOR ACCREDITATION

Electrical Emergencies (ELFS)

Page 2 of 2

Competency Evaluation Mechanism (Brief description-attach copy): None

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

1. Recognize basic types of electric utility equipment
2. Be able to identify common electrical emergencies.
3. Know the proper method to summon help to the scene of an electrical emergency.
4. List the do's and don'ts when dealing with an electrical emergency.
5. Describe proper firefighting procedures involving live electrical equipment.