

COMMON COURSE NUMBER: FFP 2811

COURSE TITLE: Application of Fireground Tactics

CREDIT HOURS: 3

CONTACT HOURS BREAKDOWN:

Lecture/Discussion	<u> 48 </u>
Lab	<u> 00 </u>
Other	<u> 00 </u>
Contact Hours/Week	<u> 3 </u>

CATALOG COURSE DESCRIPTION:

Prerequisite: FFP 1400

Corequisite: None

This course applies the basic principles learned in FFP 1400 to specific fire problems, e.g. churches, flammable gases and liquids, lumberyards, department stores, residential, supermarkets, warehouses. Included are additional pointers on solving these problems and those of a miscellaneous nature; also command responsibilities on the fireground.

General Education Requirements - Associate of Arts Degree, meets Area(s):

General Education Requirements - Associate in Science Degree, meets Area(s):

UNIT TITLES:

1. Church Fires
2. Factories -- New and Old
3. Flammable Liquids and Gasses.
4. Lumberyards, Department Stores, Residential Buildings, Supermarkets, and Warehouses
5. Problem Solving; Conditions That Affect Tactics
6. Application of Tactics to Seven Fire Problems
7. Miscellaneous Problems at the Firegrounds
8. Command at Fires
9. Overall Picture of Fireground Tactics and Strategy

I. Course Overview:

Upon successful completion of this course, the students should be able to apply the rules of tactics and strategy learned in FFP 1400 to fireground situations.

II. Units:

Unit 1. Church Fires

General Outcome:

- 1.0 The students should be able to describe the problems characteristic of fires in large churches.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 1.1 Discuss troublesome features of construction.
- 1.2 Describe fire origination in churches.
- 1.3 Describe fire fighting tactics in churches.
- 1.4 Describe fire control problems in church fires.

Unit 2. Factories -- New and Old

General Outcome:

2.0 The students should be able to describe the problems characteristic of fires in factories.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 2.1 Describe troublesome features in factories.
- 2.2 Describe a non fire-resistant factory.
- 2.3 Discuss problems in line advancement in a large fire.
- 2.4 Describe problems in fire-resistant factories.
- 2.5 Discuss general rules in factory fire operations.

Unit 3. Flammable Liquids and Gases

General Outcome:

3.0 The students should be able to describe the problems characteristic of fires involving flammable liquids and gases.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 3.1 Define terms used relating to flammable liquids.
- 3.2 Describe construction of storage tanks.
- 3.3 Discuss causes of fires in storage tanks.
- 3.4 Describe fire fighting operations at tank fires.
- 3.5 Explain methods of extinguishment.
- 3.6 Describe factors leading to tank collapse.
- 3.7 Describe problems of "size-up" by the officers.
- 3.8 Identify dangers of liquid petroleum gases.
- 3.9 Apply rules of fire fighting with gas ignited or not ignited.

Unit 4. Lumberyards, Department Stores, Residential Buildings, Supermarkets, and Warehouses

General Outcome:

4.0 The students should be able to describe the problems characteristic of fires in lumberyards, department stores, residential buildings, supermarkets, and warehouses.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 4.1 Describe dangers dominant in lumberyards due to connection currents.
- 4.2 Identify fire communication problems in lumber piles due to "stacking" methods.
- 4.3 Describe life hazard inherent to department store fires.
- 4.4 Discuss some helpful techniques in these fires.
- 4.5 Describe various types of residential buildings and fire dangers of each.
- 4.6 Discuss difference in fire fighting in a "tenement house" and a "high-rise".
- 4.7 Define the fire causes common to supermarkets.
- 4.8 Describe some "do's and don'ts" at these fires.
- 4.9 Describe various types of warehouses.
- 4.10 Describe ventilation problems in these structures.

Unit 5. Problem Solving: Conditions That Affect Tactics and Strategy

General Outcome:

5.0 The students should be able to solve some unique fire problems.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 5.1 Explain why certain assumptions can be made at fires.
- 5.2 Discuss the need for uniform fire department language.
- 5.3 Write a "size-up" as the commanding officer.
- 5.4 Examine five determining factors in placement.
- 5.5 Examine six different fires in the same building and give reasons for this method of control and extinguishment.
- 5.6 Explain the importance of making a sketch of the building when answering a fire question.

Unit 6. Application of Tactics to Seven Fire Problems

General Outcome:

6.0 The students should be able to apply basic strategic fire fighting rules to specific fireground operations.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

6.1 Describe where his first hoseline should be placed and why.

6.2 Describe where his second hoseline should be placed and why.

6.3 Describe where his third hoseline should be placed and why.

6.4 Describe where his fourth hoseline should be placed and why.

6.5 Describe the actions of the first due truck company.

6.6 Critique his procedures in each of the given examples.

Unit 7. Miscellaneous Problems at the Firegrounds

General Outcome:

7.0 The students should be able to identify problems that are beyond routine fire fighting.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

7.1 Describe safety precautions to be taken at roof operations and the special equipment that may be needed.

7.2 Describe cellar ventilation at night.

7.3 Recognize conditions where water must be avoided.

7.4 Recognize structural defects that lead to collapse.

Unit 8. Command at Fires

General Outcome:

8.0 The students should be able to describe problems encountered in taking command at a fire.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 8.1 Discuss the efficiency of command in various size fire departments.
- 8.2 Define problems in small departments.
- 8.3 Define problems in a large department.
- 8.4 Describe the command structure.
- 8.5 Place fire companies based on information given him by his subordinates.

Unit 9. Overall Picture of Fireground Tactics and Strategy

General Outcome:

9.0 The students should be able to compare today's tactics with those of the future.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

9.1 Explain the "ripple effect" in a large loss fire.

9.2 Know how to limit what there is to burn.

9.3 Describe some hazards common to industry.

9.4 Project what lies ahead for fire departments regarding manpower, new extinguishing agents, advanced fire detecting devices, the use of computers in command cars, the scramble for tax dollars to the fire department.