

FIP 221
ADVANCED FIRE FIGHTING STRATEGIES

COURSE DESCRIPTION:

Prerequisites: FIP 220

Corequisites: None

This course covers command-level operations for multi-company/agency operations involving fire and non-fire emergencies. Topics include advanced ICS, advanced incident analysis, command-level fire operations, and control of both manmade and natural major disasters. Upon completion, students should be able to describe proper and accepted systems for mitigating emergencies at the level of overall scene command. In addition, students study advanced fire strategies as they relate to selected NFPA standards. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

COURSE OBJECTIVES:

Upon completion of this course, the student will be able to:

- a. Utilize the incident command system effectively to control an incident
- b. Establish a command post in the most strategic location for the incident.
- c. Develop appropriate staging areas.
- d. Determine the appropriate size command team for the incident and make appropriate assignments.
- e. Assess manpower and equipment needs accurately for each incident.
- f. Determine and execute appropriate strategies for commercial structures fires.
- g. Determine and execute appropriate strategies for office high-rise fires.
- h. Determine and execute appropriate strategies for residential high-rise fires.
- i. Determine and execute appropriate strategies for multi-structure conflagrations.
- j. Determine and execute appropriate strategies for aircraft crashes.
- k. Determine and execute appropriate for train derailments.
- l. Determine and execute appropriate strategies for hazardous materials incidents
- m. Determine and execute appropriate strategies for mass casualty incidents.
- n. Determine and execute appropriate strategies for natural disasters.
- o. Determine and execute appropriate strategies for civil disturbances.

OUTLINE OF INSTRUCTION:

- I. The incident command system
 - A. Incident command model
 - B. ICS history
 - C. Adapting the ICS model to multi-company operations
 - D. Using the ICS
- II. Communications and ICS

- A. Multi-networking at command
 - B. Coordination of communication traffic
 - C. Alternative communication systems
- III. Apparatus placement and utilization
- A. Development and location of a staging area
 - B. Principles of control for staging area
 - C. Location of apparatus at the incident scene
 - D. Location strategies
- IV. Command post operations
- A. Command post location
 - B. Command post organization
 - C. Command post documentation
 - D. Delegation of responsibility
 - E. Principles of operation
- V. Commercial structure fires
- A. Priority checklist for fireground organization
 - B. Assessment of resource needs
 - C. Organization of the ICS team
 - D. Determination of strategy and tactics
 - E. Implementation of operations
- VI. High-rise fires
- A. Assessment of resource needs
 - B. Organization of the ICS team
 - C. Special constraints of high-rise incidents
 - D. Strategy and tactics for high-rises
 - E. Special operations and resources
- VII. Residential high-rise fires
- A. Special problems for hotels
 - B. Special problems for apartments
 - C. Special problems for elderly housing
 - D. Problems with older construction
 - E. Colleges and universities
- VIII. Multi-structure conflagration incidents
- A. Conditions of multi-structure involvement
 - B. Assessment of resource needs
 - C. Determination of strategy and tactics
 - D. Implementation of operations
- IX. Aircraft crashes
- A. Assessment of resource needs

- B. Organization of ICS team
 - C. Crash priorities and strategies
 - D. Determination of crash response priorities on scene
 - E. Implementation of operations
- X. Train derailments
- A. Assessment of resource needs
 - B. Organization of ICS team
 - C. Determination of incident strategy and tactics
 - D. Implementation of operations
 - E. Spill control
- XI. Hazardous materials incidents
- A. Assessment or resource needs
 - B. Use of private and government resources
 - C. Organization of the ICS team
 - D. Utilization of special resources in the community
 - E. Determination of incident strategy and tactics
 - F. Incident classification
 - G. Outer perimeter strategy
 - H. Inner perimeter strategy
 - I. Leak and spill control
 - J. Disposal problems
 - K. Evacuation procedures and strategies
- XII. Mass casualty incidents
- A. Assessment of resource needs
 - B. ICS for the mass casualty incident
 - C. The triage process
 - D. Allocation of rescue manpower
 - E. Organization of the MCI
- XIII. Natural disaster
- A. Assessment of resource needs
 - B. Multi-jurisdictional ICS
 - C. Strike team concepts
 - D. Legal and financial accountability
 - E. Principles of multi-jurisdictional operations
- XIV. Riots and civil disturbances
- A. Assessment of resource needs
 - B. Multi-agency ICS operations
 - C. Organization of the ICS team

 - D. Determination of intervention criteria
 - E. Operations strategy and tactics
 - F. Implementation of operations

REQUIRED TEXTBOOK AND MATERIALS:

Norman, John. Fire Officer's Handbook Of Tactics. Fire Engineering. PennWell Publishing Company, 1991.

STATEMENT FOR STUDENTS WITH DISABILITIES:

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 686-3652 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1309.