

Program of Instruction

Course Syllabus

Course Title: Commercial Building Operations

Course Duration: 16-Hours

Program: Firefighting Program

Course Description: Multiple story, non-fireproof “taxpayers,” strip malls, cellars, warehouse areas and cocklofts - all pose additional risks to firefighters. Topics in the class will cover operational priorities as they relate to commercial building fires including suppression strategies and the coordination of tactics between companies.

Course Requirements and/or Recommendations: These can be divided into three categories: those completed prior to arriving in class (Pre-Course Work), those completed during class, such as homework assignments and quizzes (Course Work), and requirements completed after class but prior to receiving a certificate of completion. (Post-Course Work)

Summary of Directions

Pre-Course Work: None

Course Work: Attend and participate in all lectures and practicals.

Post-Course Work: None

Recommended Reading:

Norman, John, Fire Officer's Handbook of Tactics, PennWell Publishing Company, New Jersey, 1991

Fornell, David P., Fire Stream Management Handbook, PennWell Publishing Company, New Jersey, 1991

Quintiere, James G., Principles of Fire Behavior, Delmar Publishers, New York, 1998

Dunn, Vincent, Collapse of Burning Buildings, A Guide to Fireground Safety, PennWell Publishing Company, New Jersey, 1988

Brannigan, Francis L., Corbett, Glenn P., Brannigan's Building Construction for The Fire Service, 4th Edition, Jones and Bartlett Publishers, Massachusetts, 2008

Dunn, Vincent, Safety and Survival on the Fireground, PennWell Publishing Company, New Jersey, 1992

Firefighter's Handbook, Essentials of Firefighting and Emergency Response, Delmar Publishers, New York, 2000

Reference List:

- Norman, John, Fire Officer's Handbook of Tactics, PennWell Publishing Company, New Jersey, 1991
- Fornell, David P., Fire Stream Management Handbook, PennWell Publishing Company, New Jersey, 1991
- Quintiere, James G., Principles of Fire Behavior, Delmar Publishers, New York, 1998
- Dunn, Vincent, Collapse of Burning Buildings, A Guide to Fireground Safety, PennWell Publishing Company, New Jersey, 1988
- Brannigan, Francis L., Corbett, Glenn P., Brannigan's Building Construction for The Fire Service, 4th Edition, Jones and Bartlett Publishers, Massachusetts, 2008
- Dunn, Vincent, Safety and Survival on the Fireground, PennWell Publishing Company, New Jersey, 1992
- Firefighter's Handbook, Essentials of Firefighting and Emergency Response, Delmar Publishers, New York, 2000
- Engine Company Operations*, IFSI, 1997, R.A. Fritz, C.A. Haigh, J. Welch, B. Bone, R. Palczynski
- Fire Scene Officer*, IFSI Fire College, 2006, Phil DeMick, Ed Enright, Andy Fredericks, Lew Lake, John McNamara, Randy Schlichter, Jim Stedman, Illinois Fire Chief's Association
- Building Construction for the Fire Service*, C.A. Haigh, 2010

Course Policies:

Safety Policy: Students shall understand and follow all instructions pertaining to operational safety, as stated by instructors or as written in course materials. Instructors and students shall be mindful of safety at all times. Conduct judged to be unsafe shall be grounds for dismissal from the course.

Academic Integrity Policy: IFSI has the responsibility for maintaining academic integrity so as to protect the quality of the education provided through its courses, and to protect those who depend upon our integrity. It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions. Any violation of the code of conduct is grounds for immediate dismissal from the course.

Course Content:

Module: 1

Title: Size-up

Terminal Learning Objectives:

At the conclusion of this module, students will be able to explain the importance of an effective size-up including specific evaluation points using the acronym COAL WAS WEALTH.

Module: 2

Title: Understanding and Establishing Tactical Priorities

Terminal Learning Objectives:

At the conclusion of this module, students will be able to explain the step by step approach to tactical fireground management and incident command through the acronym RECEO VS.

Module: 3

Title: The Engine Company

Terminal Learning Objectives:

At the conclusion of this module, students will be able to explain engine company operations with an emphasis on commercial occupancies.

Module: 4

Title: Truck Company Operations

Terminal Learning Objective:

At the conclusion of this module, the student will be able to explain the basic premise and tactics for truck companies operating at commercial building fires.

Module: 5

Title: Collapse

Terminal Learning Objectives:

At the conclusion of this module, students will be able to explain structural collapse concerns including indicators and operational safety.

Course Schedule

DAY ONE

<u>Event</u>	<u>Duration</u>
Module 1 – Size Up	1.5 hours
Module 2 – Understanding and Establishing Tactical Priorities	1 hour
Module 3 – The Engine Company	1.5 hours
Drill 3.1 – Cellar Pipe Applications	1 hour
Drill 3.2 – Long Leadouts	1 hour
Drill 3.3 – Master Streams	1 hour
Drill 3.4 – Multiple Large Diameter Streams	1 hour
Drill 3.5 – Standpipe	1 hour
Module 4 – Truck Company Operations	3.5 hours
Drill 4.1 – Basic Forcible Entry Techniques	1 hour
Drill 4.2 – Large Area Search	1 hour
Drill 4.3 – Basic Roof Ventilation Techniques	1 hour
Module 5 – Collapse	30 minutes
