

Program of Instruction

Course Syllabus

Course Title: Search Techniques for the Fireground

Course Duration: 24 Hours

Program: Firefighting

Course Prerequisites: None

Course Description: This 24 hour course is designed for students who may be involved in conducting primary and secondary searches of single family, multi-family, and commercial structures. This class focuses on the primary search, secondary search and final searches. Not only in residential buildings but, multi-family and commercial setting as well and goes further to include Vent Enter Search (VES), Rope Assisted Search Procedures (RASP) and Wide Area Search. Students also spend time learning and practicing the critical component of victim removal procedures. Each student is encouraged to develop and refine this skill set that will prove invaluable for the rest of their career.

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:

Course Work: Participate in all course lectures and drills

Post-Course Work:

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.

American Disabilities Act: As guaranteed in the Vocational Rehabilitation Act and in the American Disabilities Act, if any student needs special accommodations they are to notify their instructor and provide documentation as soon as possible so arrangements can be made to provide for the student's needs.

Course Content:

Module: 1

Title: Building Construction

Terminal Learning Objectives: At the conclusion of this module, the student will identify the components and hazard associated with all five types of building construction.

Module: 2

Title: Fire Behavior

Terminal Learning Objectives: At the conclusion of this module, the student will explain the effects of fire behavior and how it relates to search operations.

Module: 3

Title: Reading Smoke Conditions

Terminal Learning Objectives: At the conclusion of this module, the student will recognize the importance of reading smoke conditions as it relates to search operations

Module: 4

Title: Rescue profiling

Terminal Learning Objectives: At the conclusion of this module, the student will recognize the importance of reading buildings as it relates to search operations

Module: 5

Title: Single Family Dwelling Search

Terminal Learning Objectives: At the conclusion of this module, the student will explain the principles and understand the proper way to a conduct a search in a Single family dwelling

Module: 6

Title: Vent, Enter, Search (V.E.S.)

Terminal Learning Objective: At the conclusion of this module, the student will demonstrate the proper techniques for V.E.S.

Module: 7

Title: Victim movement and removal

Terminal Learning Objectives: At the conclusion of this module, the student will understand the proper techniques when conducting victim movement and removal.

Module: 8

Title: Utilizing Thermal Imaging Camera for Search

Terminal Learning Objective: At the conclusion of this module, the student will *understand* the pros and cons of using a thermal imaging camera for search.

Module: 9

Title: Firefighter Fatality Case Study – San Francisco

Terminal Learning Objective: At the conclusion of this module, the student will *identify* significant factors that contributed to the firefighter(s) death.

Module: 10

Title: Multi-Family Search

Terminal Learning Objectives: At the conclusion of this module, the student will demonstrate the proper techniques to conduct search operations in a multi-family dwelling

Module: 11

Title: Orientated Search Operations

Terminal Learning Objective: At the conclusion of this module, the student will demonstrate the proper techniques for an orientated search

Module: 12

Title: Firefighter Fatality Case Study - Dallas

Terminal Learning Objective: At the conclusion of this module, the student will *identify* significant factors that contributed to the firefighter(s) death

Module: 13

Title: RASP

Terminal Learning Objective: At the conclusion of this module, the student will properly deploy a search rope.

Module: 14

Title: Large Area Search

Terminal Learning Objective: At the conclusion of this module, the student will demonstrate the proper techniques for conducting a large area search

Module: 15

Title: Commercial Search

Terminal Learning Objectives: At the conclusion of this module, the student will demonstrate the proper techniques to conduct search operations in a commercial occupancy

Module: 16

Title: Firefighter Fatality Case Study - Worcester

Terminal Learning Objective: At the conclusion of this module, the student will *identify* significant factors that contributed to the firefighter(s) death.

Scenarios:

Final Practical Multi-family dwelling

Final Practical commercial occupancy

Assignment Summary:

Reference List:

NFPA 1001, Standard for Firefighter Professional Qualifications, 2013 Edition

NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, 2013 Edition

NFPA 1710, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments, 2010 Edition

NFPA 1720, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Volunteer Fire Departments, 2010 Edition

Course Schedule

DAY ONE

<u>Event</u>	<u>Duration</u>
Module 1 - Building Construction	10 minutes
Module 2 - Fire Behavior	10 minutes
Module 3 - Reading Smoke Conditions	10 minutes
Module 4 - Rescue Profiling	30 minutes
Module 5 - Single Family Dwelling Search	30 minutes
Module 6 - Vent, Enter, Search (V.E.S.)	30 minutes
Module 7 - Victim Movement and Removal	30 minutes
Module 8 - Utilizing Thermal Imaging Camera for Search	30 minutes
Module 9 - Firefighter Fatality Case Study	30 minutes

Lunch

Drill 6.1 - Vent, Enter, Search (V.E.S.)	1 hour
Drill 7.1 - Victim Movement and Removal	1 hour
Drill 5.1 - Single story Residential Search	1 hour
Drill 5.2 - Two Story Residential Search	1 hour

DAY TWO

<u>Event</u>	<u>Duration</u>
Module 10 – Multi-Family Search	30 minutes
Module 11 – Orientated Search Operations	30 minutes
Module 12 – Firefighter Fatality Case Study	30 minutes
Module 13 –RASP	30 minutes
Module 14 – Large Area Search	30 minutes
Module 15 - Commercial Search	30 minutes
Module 16 - Firefighter Fatality Case Study	30 minutes

Lunch

Drill 11.1 - Orientated Search Operations	1 hour
Drill 13.1 – RASP	1 hour 30 minutes
Drill 10.1 – Multi-Family Dwelling Search	1 hour 30 minutes
Drill 15.1 – Commercial Occupancy Search	1 hour 30 minutes
Drill 15.2 – Multi-Company Search Operations	1 hour 30 minutes

DAY THREE

<u>Event</u>	<u>Duration</u>
Final Scenario Multi-Family Search	3 hours
Final Scenario Commercial Search	3 hours