

# University of Illinois Fire Service Institute

## Course Syllabus

**Course Title:** Fire Behavior and Reading Smoke

**Course Duration:** 4 hours

**Program:** Firefighting/Cornerstone

**Course Prerequisites:** None

**Course Description:** This class expands on the basic fire behavior materials learned during initial firefighting training. It focuses on the importance of deducing critical fire characteristics from the attributes of visible smoke. Students will learn how understanding smoke volume, velocity, density, and color can help predict hostile fire events, as well as tactics and strategies that are useful to prevent these events from occurring.

### **Course Requirements:**

Pre-Course Work – None

Course Work – Attend and participate in all lectures and demonstrations.

Post-Course Work – None

### **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.

**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. If arrangements cannot be made at the class site, the student will test at an alternative time and place where the special accommodations can be made.

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## Course Content:

Module: 1

Title: Fire Behavior and Reading Smoke

### Terminal Learning Objective:

At the conclusion of this module, the student will use fire behavior principles to prevent firefighter injuries by forecasting fire growth and predicting the likelihood of hostile fire events.

## Course Schedule

<u>Event</u>	<u>Duration</u>
Module 1 – Fire Behavior and Reading Smoke	3 hours
Demonstration 1.1	1 hour