

University of Illinois Fire Service Institute

Course Syllabus

Course Title: Fire Inspector II

Course Duration: 40 hours

Program: Prevention

Course Prerequisites: Fire Inspector I

Course Description:

Fire Inspector II is a classroom based, 40-hour block of instruction designed to prepare an individual to conduct advanced level fire and life safety inspections. The class is focused on those who are pursuing a fire prevention related career or who want to establish an advanced understanding of fire inspection related issues. Topics in the course include in-depth instruction into: Inspection Procedures, Fire Hazard Recognition, Installed Systems, Means of Egress, Plan Review and Emergency Planning and Preparedness. Individuals with or without fire service background will benefit from the course.

Course Requirements and/or Recommendations:

Pre-Course Work: None

Course Work: Complete all assignments, End of Course Exam, and Practicals.

Post-Course Work: None

Required Textbook:

Fire Inspection & Code Enforcement, 8th Edition. IFSTA

The student will need to acquire the textbook prior to the start of class.

Course Policies:

Attendance Policy: IFSI requires students to attend (100%) or make up all course content that leads to certification. Students are expected to attend on time and to remain in class for the duration of the course. Students **MUST COMPLETE** all portions of a certification course, both classroom and practical, to be eligible to receive their certification.

If a student misses any portion of class with an accumulated absence of 20% or less of scheduled class time, it will be the student's responsibility to arrange the make-up of the missed course content with the instructor(s) or program manager. The student must make up the specific course content that s/he missed, not just the hours. Make-ups are limited to 20% of scheduled class time. Make-ups must be documented on the class roster. If a student's absence is greater than 20% refer to "True Emergencies" section of the IFSI Examination Policy.

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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.

Grading Policy: Decisions regarding certificates of course completion shall be made solely by the lead instructor of the course. All grading of exams shall be conducted by the Curriculum/Testing Office. All grading of practical exercises shall be based upon the standards set by the regulatory agency referenced in the course material and IFSI.

Retesting: If a student fails to pass an exam, retesting takes place on set dates at regional sites across the state. More information is provided in the course completion e-mail and on the IFSI website.

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.

Evaluation Strategy: Students will be evaluated with an end of course exam and performance evaluation checklist.

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Course Content

Chapter: 1

Title: Duties and Authority

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain the legal system on which inspector authority is based.

Chapter: 2

Title: Code, Standards, and Permits

Terminal Learning Objective:

At the conclusion of this chapter, the student will recommend modifications to codes or standards.

Chapter: 3

Title: Fire Behavior

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain the factors that affect fire development within a compartment.

Chapter: 4

Title: Construction Types & Occupancy Classifications

Terminal Learning Objective:

At the conclusion of this chapter, the student will describe occupancy classifications.

Chapter: 5

Title: Building Construction

Terminal Learning Objective:

At the conclusion of this chapter, the student will describe the types of construction.

Chapter: 6

Title: Building Components

Terminal Learning Objective:

At the conclusion of this chapter, the student will describe building components.

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Chapter: 7

Title: Means of Egress

Terminal Learning Objective:

At the conclusion of this chapter, the student will calculate occupant load.

Chapter: 9

Title: Fire Hazard Recognition

Terminal Learning Objective:

At the conclusion of this chapter, the student will identify fire hazards caused by a variety of hazardous processes.

Chapter: 10

Title: Hazardous Materials

Terminal Learning Objective:

At the conclusion of this chapter, the student will describe inspection concerns regarding hazardous materials.

Chapter: 12

Title: Water-Based Fire Suppression Systems

Terminal Learning Objective:

At the conclusion of this chapter, the student will perform an acceptance test of sprinkler systems.

Chapter: 13

Title: Special Agent Fire Extinguishing Systems

Terminal Learning Objective:

At the conclusion of this chapter, the student will discuss special-agent fire-extinguishing systems.

Chapter: 14

Title: Fire Detection and Alarm Systems

Terminal Learning Objective:

At the conclusion of this chapter, the student will describe alarm system testing.

Chapter: 15

Title: Plans Review

Terminal Learning Objective:

At the conclusion of this chapter, the student will describe a systematic plans review.

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Chapter: 16

Title: Inspection Procedures

Terminal Learning Objective:

At the conclusion of this chapter, the student will discuss the elements of an emergency evacuation plan.

Required Reading:

Text: Fire Inspection & Code Enforcement, 8th Edition. 2016, IFSTA

<u>Chapter:</u>	<u>Pages:</u>
1. Duties and Authority.....	pp. 24-37
2. Codes, Standards, and Permits.....	pp. 56-68
3. Fire Behavior.....	pp. 108-111
4. Construction Types & Occupancy Classifications.....	pp. 146-149
5. Building Construction	pp. 171-189
6. Building Components.....	pp. 220-237
7. Means of Egress.....	pp. 268-280
8.	N/A
9. Fire Hazard Recognition.....	pp. 335-375
10. Hazardous Materials	pp. 449-460
11.	N/A
12. Water-Based Fire-Suppression Systems	pp. 538-558
13. Special-Agent Fire-Extinguishing Systems.....	pp. 594-603
& Extinguishers	
14. Fire Detection and Alarm Systems.....	pp. 642-647
Transporting, Using, and Disposing	
15. Plans Review	pp. 656-685
16. Inspection Procedures.....	pp. 724-727

Reference List:

Fire Inspection & Code Enforcement, 8th Edition 2016, IFSTA

NFPA 101, Life Safety Code, 2018 Edition

NFPA 1031 Standard for Professional Qualifications for Fire Inspector and Plan Examiner, 2014 Edition.

NFPA 5000, Building Construction and Safety Code, 2018 Edition.

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Course Schedule

DAY ONE

<u>Event</u>	<u>Duration</u>
Course Business & Orientation	1 hour
Chapter 1 – Duties and Authority	1 hour
Chapter 2 – Standards, Codes, and Permits	2 hours
Lunch	
Fire Code Activity – IFC & Life Safety Code Familiarization	4 hours

DAY TWO

<u>Event</u>	<u>Duration</u>
Learning Activities	1 hour
Chapter 3 – Fire Behavior	1 hour
Chapter 4 – Construction Types & Occupancy Classifications	2 hours
Lunch	
Fire Code Activity – IFC & Life Safety Code - Occupancy Classifications	2 hours
Chapter 5 – Building Construction	2 hours

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DAY THREE

<u>Event</u>	<u>Duration</u>
Chapter 6 – Building Components	1 hour 30 minutes
Chapter 7 – Means of Egress	2 hours
Lunch	
Chapter 7 – Means of Egress	1 hour
Fire Code Activity – IFC & Life Safety Code Activities	3 hours
Learning Activities	30 minutes

DAY FOUR

<u>Event</u>	<u>Duration</u>
Chapter 9 – Fire Hazard Recognition	2 hours
Chapter 12 – Water-Based Fire Suppression Systems	2 hours
Lunch	
Chapter 13 – Special Agent Fire Extinguishing Systems & Portable Extinguishers	2 hours
Learning Activities	2 hours

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DAY FIVE

<u>Event</u>	<u>Duration</u>
Chapter 14 – Fire Detection and Alarm Systems	1 hour
Chapter 15 – Plans Review and Field Verification	1 hour
Chapter 16 – Inspection Procedures	1 hour
Chapter 10 – Hazardous Materials	1 hour
Lunch	
Inspection & Plan Review Activity	2 hours
Learning Activities	1 hour
Exam	1 hour