

University of Illinois Fire Service Institute

Course Syllabus

Course Title: Fire Attack Suppression Techniques (FAST)

Course Duration: 40 hours

Program: Firefighting

Course Prerequisites: Basic Operations Firefighter certification or Firefighter II certification

Course Description: The F.A.S.T. course is designed for those firefighters seeking to advance their basic skills training or for those seeking additional live firefighting experience. The course will emphasize advancing proficiency in hose and ladder handling, forcible entry, SCBA, search and rescue, structural fire attack, ventilation, and stream operations. Training responses and acquired structures will be utilized to provide a challenging learning environment.

Course Requirements:

Pre-Course Work – N/A

Course Work – Attend lectures and participate in all drills/scenarios.

Post-Course Work – N/A

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.

University of Illinois Fire Service Institute

Course Content:

Module: 1

Title: Building Construction

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

Module: 2

Title: Fire Behavior

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

Module: 3

Title: SCBA Maneuvers

Terminal Learning Objective: At the conclusion of this module, the student will demonstrate the use of the SCBA in various situations.

Module: 4

Title: Moving Victims

Terminal Learning Objective: At the conclusion of this module, the student will demonstrate the proper techniques for moving civilian victims.

Module: 5

Title: Nozzle Demonstration

Terminal Learning Objective: At the conclusion of this module, the student will identify the importance of proper use of smooth bore and fog stream nozzles.

Module: 6

Title: Forcible Entry

Terminal Learning Objective: At the conclusion of this module, the student will explain the principles of and demonstrate the procedures of forcible entry.

Module: 7

Title: Search

Terminal Learning Objective: At the conclusion of this module, the student will explain the principles of and demonstrate the proper way to conduct a search.

Module: 8

Title: Hand Can

Terminal Learning Objective: At the conclusion of this module, the student will identify the advantages and limitations of a hand can.

University of Illinois Fire Service Institute

Module: 9

Title: Engine Company Operations

Terminal Learning Objective: At the conclusion of this module, the student will understand and demonstrate the proper responsibilities as a member of an engine company.

Module: 10

Title: Truck Company Operations

Terminal Learning Objective: At the conclusion of this module, the student will understand and demonstrate the proper responsibilities as a member of a Truck Company.

Reference List:

Basic Firefighter/NFPA Firefighter I Academy – Instructor Manual, Version 6.1. (July 2021). Illinois Fire Service Institute, Board of Trustees, University of Illinois

Brannigan, Francis. (2019) Building Construction for the Fire Service, 6th Ed. Jones & Bartlett Publishing, Sudbury, Ma.

Dodson, D. (2007) *The Art of Reading Smoke* [DVD]. United States: PennWell Books.

Engine Company Operations – Instructor Manual, Version 1. (August 2015). Illinois Fire Service Institute, Board of Trustees, University of Illinois

Fredericks, A. (February 2000). Little Drops of Water: 50 Years Later, Part 1. *Fire Engineering*, 153(2), 63-76.

Fredericks, A. (March 2000). Little Drops of Water: 50 Years Later, Part 2. *Fire Engineering*, 152(3), 113-136.

Kolomay, R. & Hoff, R. (2003) *Firefighter Rescue & Survival*. Tulsa, OK: PennWell Corporation

NFPA 1001, Standard for Professional Firefighter Qualifications, 2019 Ed.

NFPA 1404, Standard for Fire Service Respiratory Protection Training, 2018 Ed.

NFPA 1500, Standard for Fire Department Occupational Health and Safety Program, 2021 Ed.

University of Illinois Fire Service Institute

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, 2020 Ed.

NFPA 1720, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments, 2020 Ed.

NFPA 1981, Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for Emergency Services, 2019 Ed.

Truck Company Operations – Instructor Manual. (September 2018). Illinois Fire Service Institute, Board of Trustees, University of Illinois

University of Illinois Fire Service Institute

Course Schedule

DAY ONE

<u>Event</u>	<u>Duration</u>
Module 1 – Building Construction	1 hour
Module 2 – Fire Behavior	1 hour
Module 3 – SCBA Maneuvers	
Drill 3.1 – SCBA Emergencies	2 hours
Lunch	
Drill 3.2 – SCBA Confidence Course	1 hour
Drill 3.3 – Buddy Breathing	1 hour
Module 4 – Moving Victims	
Drill 4.1 – Moving Civilian Victims	1 hour
Module 5 – Nozzle Demonstration	
Drill 5.1 – Nozzle Demonstration	1 hour

DAY TWO

<u>Event</u>	<u>Duration</u>
Module 6 – Forcible Entry	1 hour
Drill 6.1 – Thru the locks	1 hour
Drill 6.2 – Bar and hammer	1 hour
Drill 6.3 – Power Saws	1 hour
Drill 6.4 – Torches	1 hour
Lunch	
Module 7 - Search	
Drill 7.1 – Basic Search	1 hour
Drill 7.2 – Single Family Search	30 minutes
Drill 7.3 – Taxpayer Search	30 minutes
Module 8 – Hand Can	
Drill 8.1 – Hand Can Drill	1 hour

University of Illinois Fire Service Institute

DAY THREE

<u>Event</u>	<u>Duration</u>
Module 9 – Engine Company Operations	2 hours
Drill 9.1 – Lead Outs	30 minutes
Drill 9.2 – Finish Loads	30 minutes
Drill 9.3 – High Rise Operations	1 hour
Lunch	
Drill 9.4 – 2 ½” Hose Line Lead Outs	1 hour
Drill 9.5 – Hose Advancement	1 hour
Scenario 1 – Basement Fire	2 hours

DAY FOUR

<u>Event</u>	<u>Duration</u>
Module 10 – Truck Company Operations	2 hours
Drill 10.1 – Peak Roof Ventilation	1 hour
Drill 10.2 – Flat Roof Ventilation	1 hour
Lunch	
Drill 10.3 – Vent, Enter, Search	1 hour
Drill 10.4 – Paxton Drill	1 hour
Scenario 2 – Taxpayer Final Practical	2 hours

DAY FIVE

<u>Event</u>	<u>Duration</u>
Scenario 3 – Streetscape All-Hands	2 hours
Scenario 4 – High Rise Final Practical	6 hours
