

University of Illinois Fire Service Institute

Course Syllabus

Course Title: Basic Aerial Apparatus Operations

Course Duration: 16 hours

Program: Driver/Operator

Course Prerequisites: None

Course Description: This course is designed to provide Firefighters with a basic understanding of the design, operation, and deployment of aerial apparatus. Students will be introduced to the various types of aerial apparatus and aerial devices that are used in the fire service, safe procedures for stabilization, aerial device operation, and the tactical deployment of aerial devices. Students will participate in drills to reinforce the concepts discussed in the classroom.

Because departments have significantly different equipment, maintenance practices, and training needs, the lead instructor shall use their discretion to determine the appropriate course materials and drills for the class delivery based on the equipment available and the department needs.

Course Requirements:

Pre-Course Work: None

Course Work: Participate in lecture and practical exercises

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 always mindful of safety. Conduct judged to be unsafe shall be grounds for dismissal from the course.

Academic Integrity Policy: IFSI has the responsibility for maintaining academic integrity 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.

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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.

Course Content:

Module: 1

Title: Aerial Apparatus

Terminal Learning Objective:

At the conclusion of this module, the student will describe the types and construction of aerial apparatus.

Module: 2

Title: Aerial Apparatus Stabilization

Terminal Learning Objective:

At the conclusion of this module, the student will demonstrate stabilizing an aerial apparatus.

Module: 3

Title: Tactical Positioning

Terminal Learning Objective:

At the conclusion of this module, the student will demonstrate positioning an aerial apparatus to complete a given assignment.

Module: 4

Title: Aerial Device Positioning

Terminal Learning Objective:

At the conclusion of this module, the student will demonstrate positioning an aerial device to complete a given assignment.

Module: 5

Title: Aerial Operations

Terminal Learning Objective:

At the conclusion of this module, the student will demonstrate operating an aerial apparatus to complete a given assignment.

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Reference List: (listed in alphabetical order)

IFSTA, Pumping Apparatus Driver/Operator Handbook, 3rd Edition 2015

Jones and Bartlett Learning, Fire Apparatus Driver/Operator, 3rd Edition 2018

Mittendorf, John, Truck Company Operations, 2nd Ed. (2011), Pennwell Corporation

NFPA 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications, Edition 2017

NFPA 1901, Standard for Automotive Fire Apparatus, Edition 2016

NFPA 1911, Standard for the Inspection, Maintenance, Testing, and Retirement of In-Service Emergency Vehicles, Edition 2017

Norman, John, Fire Officer's Handbook of Tactics, 4th Ed. (2012), Pennwell Corporation

Tower Ladder Operations Program, Chicago Fire Department, Chicago, Illinois, April 2014

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Course Schedule

DAY ONE

<u>Event</u>	<u>Duration</u>
Module 1 - Aerial Apparatus	1 hour 30 minutes
Drill 1.1 - Aerial Apparatus Walk Through	30 minutes
Module 2 - Aerial Apparatus Stabilization	30 minutes
Drill 2.1 - Aerial Apparatus Stabilization	1 hour
Lunch	
Module 3 - Tactical Positioning	1 hour
Module 4 - Aerial Device Positioning	30 minutes
Module 5 - Aerial Operations	1 hour
Drill 5.1 - Aerial Device Emergency Operations	1 hour
Drill 5.3 – Response Area Tour	1 hour

DAY TWO

<u>Event</u>	<u>Duration</u>
Drill 3.1 - Aerial Apparatus Positioning	1 hour
Drill 4.1 – Aerial Device Operations	2 hours
Drill 5.2 - Elevated Master Stream Ops	1 hour
Lunch	
Additional Practice	4 hours
