

Program of Instruction

Course Syllabus

Course Title: Aerial Apparatus Driver/Operator

Course Duration: 24 hours

Program: Driver/Operator

Course Prerequisites:

NFPA Firefighter I Certification; and
Fire Service Vehicle Operator Certification; or
Fire Apparatus Engineer Certification; or
Driver/Operator – Pumper Certification

Course Description: This 24-hour class is designed to provide Firefighters with a basic understanding of the design, maintenance, 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, the inspection and maintenance of aerial apparatus, safe procedures for stabilization, aerial device operation, and the tactical deployment of aerial devices. Students will participate in drills that require positioning, stabilizing, and operating aerial apparatus and aerial devices. Students will be required to operate aerial apparatus during a final practical.

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: None

Course Work: Attend and participate in lecture and practical exercises.

Post-Course Work: None

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 Emergences" section of the IFSI Examination Policy.

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 performance evaluation checklists.

Course Content:

Module: 1

Title: Aerial Apparatus Types and Construction

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 Inspection and Maintenance

Terminal Learning Objective:

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

Module: 3

Title: Aerial Apparatus 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 Apparatus Stabilization

Terminal Learning Objective:

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

Module: 5

Title: Aerial Device Operation

Terminal Learning Objective:

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

Reference List:

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

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

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

Jones and Bartlett Learning, Fire Apparatus Driver/Operator, 2nd Edition 2016

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

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

Volunteer Deputy Fire Chief Dies When Struck by Motorized Water Monitor that "Launched" Off Aerial Ladder Truck – Pennsylvania, (Feb 2009) NIOSH Fire Fighter Fatality Investigation and Prevention Program, Centers for Disease Control

Course Schedule

DAY ONE

<u>Event</u>	<u>Duration</u>
Module 1 - Aerial Apparatus Types and Construction	2 hours
Drill 1.1 - Aerial Apparatus Walk Through	30 minutes
Module 2 - Aerial Apparatus Inspection and Maintenance	30 minutes
Drill 2.1 - Fire Apparatus Routine Inspection	30 minutes
Drill 2.2 - Aerial Apparatus Inspection	30 minutes
Module 3 - Aerial Apparatus Tactical Positioning	1 hour 30 min
Drill 3.1 - Aerial Apparatus Design Walk Through	30 minutes
Drill 3.2 - Positioning for Rescue	1 hour
Drill 3.3 - Positioning for Access to Elevated Locations	1 hour

DAY TWO

<u>Event</u>	<u>Duration</u>
Drill 3.4 - Positioning for Fire Attack	1 hour
Drill 3.5 - Positioning for Defensive Operations	1 hour
Module 4 - Aerial Apparatus Stabilization	1 hour
Drill 4.1 - Stabilizing Aerial Apparatus	1 hour
Module 5 - Aerial Device Operation	1 hour
Drill 5.1 - Operating Aerial Devices	1 hour
Drill 5.2 - Aerial Device Emergency Operations	1 hour
Drill 5.3 - Deploying an Aerial Device Master Stream	1 hour

DAY THREE

Event

Duration

Final Practicals

8 hours