



Northeastern Illinois Public Safety Training Academy

Course Syllabus

M-102

Title: Aerial Apparatus Operations	Program Duration: 4 – 8 hours
Type: Mobile Training Program	Coordinator: C. Whitely

Course Description

NIPSTA's Aerial Apparatus Operations program is designed to provide firefighters with the knowledge, skills and abilities to safely and effectively operate aerial apparatus on an emergency scene. Students will participate in discussions that cover aerial design, capabilities, tactics and strategies. Students will also participate in hands-on evolutions designed to build the confidence and skills to size-up, spot, operate and trouble shoot aerial apparatus on an emergency scene.

Prerequisites

The purpose of prerequisite course work is to ensure students have sufficient backgrounds to understand the terminology, tactics and practical applications presented in NIPSTA programs. At a minimum, NIPSTA requires the following course work (or equivalent):

- Fire Service Vehicle Operator
- Advanced Firefighter

Attendance

In order to receive a certificate of completion for courses, NIPSTA requires students to be present for all lectures, demonstrations and evolutions.

Safety

NIPSTA Instructors will ensure hazards have been identified, addressed and course safety guidelines are discussed prior to operations. Unsafe actions or behaviors will not be tolerated and will be grounds for dismissal.

Academic integrity

NIPSTA aspires to the highest possible standards of honesty and integrity in all of programs. Academic integrity and honesty are key tenants of NIPSTA the experience. NIPSTA Instructors set forth clear ethical expectations, promote consistency of standards, and encourage reporting of dishonest and unsafe behaviors. While education though participation is the central goal for every NIPSTA program, it is only possible when honesty and integrity are part of the overall mission.

Performance Testing & Evaluation

NIPSTA uses multiple methods of measuring competency of subject matter including cognitive or performance skill testing. Performance skill tests, measure an individual's ability to perform specific tasks or applications based on given or known JPRs. Unless otherwise specified, performance skill tests will be pass or fail.

ADA Compliance

Students with a documented disabilities, as that term is used in the American with Disabilities Act (ADA), may qualify for reasonable accomidations as defined in section 504 of the Rehabilitation Act of 1973.

Course Content

Course content is grouped into Subject Area Modules or “mods”. Programs can be tailored to focus on all or some of the course mods.

Mod 1: Pre-course assignment

Mod 6: Working on/off Aerials

Mod 2: Aerial Types, Design & Safety

Mod 7: Aerial Troubleshooting

Mod 3: Aerial Inspection & Maintenance

Mod 8: Aerial Master Streams

Mod 4: Aerial Size-up

Mod 9: Aerial VES & Rescue

Mod 5: Aerial Operations

Mod 10: Testing & Evaluation

8 Hour Course Schedule (Sample)

Classroom and Demonstration **4 hours total**

- Lecture: Mods 1 through 5

Field Exercises **4 hours total**

- Practical Skills: Mods 4 through 10 (*or by request*)

4 Hour Course Schedule (Sample)

Classroom and Demonstration **1 hour total**

- Lecture: Mods 1 through 5

Field Exercises **3 hours total**

- Practical Skills: Mods 4 through 10 (*or by request*)

Course content and schedule can be adjusted to fit the needs of the host organization.
Contact the program coordinator listed to discuss options.

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