



## Northeastern Illinois Public Safety Training Academy

### Course Syllabus

**102**

<b>Title:</b> Advanced Technician Firefighter	<b>Program Duration:</b> 40 Hours
<b>Type:</b> Campus Training Program (CTP)	<b>Coordinator:</b> Jim Pack

#### Course Description

NIPSTA's Advanced Technician Firefighter program is designed to exceed the requirements outlined by the Illinois Office of the State Fire Marshal "OSFM", and provides students with the knowledge and skills needed to perform as an advanced level professional firefighter, as defined by NFPA 1001.

#### Prerequisites

The purpose of pre-requisite 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 successful completion of the following:

- Member of a recognized fire department or brigade
- Basic Operations Firefighter
- Min 3 years of service as a Basic Operations Firefighter
- Fire Service Vehicle Operator

#### 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 and addressed prior to the start of each program. All course safety guidelines are discussed prior to operations and at a minimum, a one (1) to six (6) instructor to student ratio will be maintained at all times. Unsafe actions or behaviors will not be tolerated and will be grounds for dismissal.

#### Academic Integrity

NIPSTA aspires to the highest possible standards of academic honesty and integrity in all programs as key tenants of the NIPSTA experience. NIPSTA Instructors set forth clear ethical expectations, promote consistency of standards, and encourage reporting of dishonest and unsafe behaviors. While education through 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 employs multiple methods of measuring competency subject matter, including cognitive and performance skill testing. Cognitive skills will be measured by utilizing a comprehensive written exam at the conclusion of the course. Students must achieve a minimum 70% score to successfully pass the written exam. 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 measured on a pass or fail basis.

## ADA Compliance

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

## Textbook

The following textbook is suggested for NIPSTA's Advanced Technician Firefighter course.

- Title: "Fundamentals of Fire Fighter Skills: Evidence Based Practices", 4th Edition
  - ISBN: 9781284144673

*\*Supplemental textbook material may be provided by course coordinator for students on, or prior to day-one of the program.*

## Pre-course Assignments

The purpose of pre-course assignments is to ensure candidates are prepared to succeed at the onset of the program. The pre-course assignments for NIPSTA's Advanced Technician Firefighter course are as follows:

- **Read:** "Fundamentals of Fire Fighter Skills: Evidence Based Practices"
  - Chapters 22 - 28

## 40 Hour Course Content

Course content is broken into subject area modules or "Mods". NIPSTA's Advanced Technician Firefighter program is comprised of the following Mods:

**Mod:** Introduction & Orientation  
**Mod:** Fire Department Communications  
**Mod:** Establishing/Transferring Command  
**Mod:** Advanced Fire Suppression Skills  
**Mod:** Assisting Special Rescue Teams  
**Mod:** Fire & Life Safety Initiatives  
**Mod:** Fire Cause & Origin  
**Mod:** Ladder Rescue Skills – VES  
**Mod:** Attack Line Skills – Ladders, Stairs  
**Mod:** Attack Line Skills – High/Mid Rise  
**Mod:** Attack Line Skills – Stand-pipes  
**Mod:** Hose Testing & Maintenance  
**Mod:** Vehicle Rescue & Extrication  
**Mod:** Advanced Suppression – LP Fires  
**Mod:** Advanced Suppression – EV Fires  
**Mod:** Detection & Suppression Systems  
**Mod:** Installed Systems Demonstration  
**Mod:** Technical Rescue Equipment  
**Mod:** Extrication & Stabilization Exercise

**Mod:** Advanced Suppression Exercise  
**Mod:** Rapid Intervention Team Operations  
**Mod:** Firefighter Survival Review  
**Mod:** Firefighter Gear Removal & CPR  
**Mod:** Rapid Intervention Team Exercises  
**Mod:** Fire Cause & Origin  
**Mod:** Fire & Life Safety Initiatives  
**Mod:** Firefighter Health & Wellness  
**Mod:** Behavioral/Stress Management  
**Mod:** Substance Use Disorder (SUD)  
**Mod:** Evidence Protection Exercise  
**Mod:** Public Education Exercise  
**Mod:** Pre-incident Planning Exercise  
**Mod:** Advanced Rescue Exercise  
**Mod:** Knowledge Assesment: Final Exam  
**Mod:** Modern Fire Behavior – Flow Path  
**Mod:** Skills Assessment: Live Fire Exercise  
**Mod:** Terminating the Incident  
**Mod:** Course Review & Evaluation

## Learning Outcomes & Evaluation

Following the conclusion of these modules, students will be familiar with the requisite knowledge and skills needed to perform as an entry level professional firefighter. Written and practical evaluations will be conducted at the completion of this course.

## ATF Course Schedule

### DAY 1

#### Morning

**Mod:** Introduction & Orientation  
**Mod:** Fire Department Communications  
**Mod:** ICS: Establishing & Transferring Command  
**Mod:** Advanced Fire Suppression – High Rise & Stand-pipes  
**Mod:** Assisting Special Rescue Teams  
**Mod:** Fire & Life Safety Initiatives  
**Mod:** Fire Cause & Origin

#### Afternoon

**Mod:** Ladder Rescue Skills – Vent, Enter, Search (VES)  
**Mod:** Attack Line Skills – Ladders, Stairs  
**Mod:** Attack Line Skills – High Rises  
**Mod:** Attack Line Skills – Stand-pipes  
**Mod:** Hose Testing & Maintenance

### DAY 2

#### Morning

**Mod:** Vehicle Rescue & Extrication  
**Mod:** Advanced Fire Suppression  
    – Liquid Petroleum (LP) Fires & Foam  
    – Electric Vehicle Fires  
**Mod:** Fire Detection and Suppression Systems  
**Mod:** Installed System Demonstration

#### Afternoon

**Mod:** Technical Rescue Equipment Overview  
**Mod:** Vehicle Extrication & Stabilization Exercise  
**Mod:** Advanced Fire Suppression Exercise  
    – Liquid Petroleum (LP) Fires & Foam  
    – Electric Vehicle Fires

### **DAY 3**

#### **Morning**

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**Mod:** Rapid Intervention Team Operations

**Mod:** Firefighter Survival

#### **Afternoon**

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**Mod:** Firefighter Gear Removal & CPR

**Mod:** Rapid Intervention Team Exercises

- Basement Scenario
- Mid-rise Scenario

### **DAY 4**

#### **Morning**

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**Mod:** Fire Cause & Origin

**Mod:** Fire & Life Safety Initiatives

**Mod:** Firefighter Health & Wellness

**Mod:** Behavioral/Stress Management

**Mod:** Substance Use Disorder (SUD)

#### **Afternoon**

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**Mod:** Fire Cause & Origin – Evidence Protection Exercise

**Mod:** Public Education Exercise

**Mod:** Pre-incident Planning Exercise

**Mod:** Advanced Fireground Rescue Exercise

### **DAY 5**

#### **Morning**

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**Mod:** Knowledge Assessment: Final Exam

**Mod:** Modern Fire Behavior Demonstration – Flow Path

#### **Afternoon**

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**Mod:** Skills Assessment: Comprehensive Live Fire Exercise

**Mod:** Terminating the Incident

- Tool Inspection & Inventory
- Course Evaluation

## Reference List

*Fundamentals of Fire Fighter Skills: Evidence-based Practices*. 4<sup>th</sup> Ed. (2019). Burlington, MA: Jones and Bartlett Learning.

*NFPA 1001, Standard for fire Fighter Professional Qualifications*. (2019). Quincy, MA: National Fire Protection Association.

American Heart Association. (2020). *Basic life support: Provider manual*.