

	Northeastern Illinois Public Safety Training Academy	Course Syllabus
		102

Title: Advanced Technician Firefighter	Program Duration: 40 Hours
Type: Campus Training Program (CTP)	Coordinator: 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 accomidations 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 followng 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

Mod: Rapid Intervention Team Operations

Mod: Firefighter Survival

Afternoon

Mod: Firefighter Gear Removal & CPR

Mod: Rapid Intervention Team Exercises

- Basement Scenario
- Mid-rise Scenario

DAY 4

Morning

Mod: Fire Cause & Origin

Mod: Fire & Life Safety Initiatives

Mod: Firefighter Health & Wellness

Mod: Behavioral/Stress Management

Mod: Substance Use Disorder (SUD)

Afternoon

Mod: Fire Cause & Origin – Evidence Protection Exercise

Mod: Public Education Exercise

Mod: Pre-incident Planning Exercise

Mod: Advanced Fireground Rescue Exercise

DAY 5

Morning

Mod: Knowledge Assessment: Final Exam

Mod: Modern Fire Behavior Demonstration – Flow Path

Afternoon

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. 4th 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.*