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# Northampton Community College

Introduction to the Fire Service (LEVEL 1 ELIS)  
HazMat Awareness  
Fireground Support (LEVEL 2 ELFG)  
Exterior Firefighter (LEVEL 3 ELEF)  
HazMat Operations

## FALL 2022

Lead Instructor –Jerry VanHorn

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**Class Hours:** *Thursdays 6:30 PM to 10:30 PM - Sundays 8:00 AM to 5:00 PM*

**Course Location:** Northampton County Fire School - *UNLESS OTHERWISE NOTED*

6 Nagys Hill Road

Bangor, PA 18013

Phone -610-588-3747

**Required Textbook:** *IFSTA – Essentials of Fire Fighting and Fire Department Operations, Seventh Edition and Pennsylvania Edition Entry Level Fire Training Skills Sheets Book*

### Course objectives and outcomes:

**Student learning outcomes for Essentials of Firefighting and Emergency Response based on core threads that are tied to the program outcomes include:**

- LEVEL 1 – How to safely respond to, return from, and operate during fire department emergencies
- LEVEL 2 – Learn task-specific training involving non suppression activities
- LEVEL 3 – Learn skills required to perform exterior fire ground operations

**Specific Essentials of Firefighting and Emergency Response Learning Objectives from the Pennsylvania State Fire Academy aligning with the recommendations of the National Fire Prevention Agency**

With successful completion of this course, the student will be able to understand, perform and demonstrate competency of all objectives as stated and outlined in the assigned chapters per the *IFSTA – Essentials of Fire Fighting and Fire Department Operations, Seventh Edition* textbook. Also be certified in the first three modules of Essentials of Firefighting: Level 1 Introduction to the Fire Service (ELIS); Level 2 Fireground Support (ELFG); Level 3 Exterior Fire Fighter (ELEF).

### Methods of Evaluation

1. Written Exams on materials covered in lectures.
2. Practical Skills evaluations: Competency Skill is Pass / Fail

3. Comprehensive Final Exam. ***Retests for just cause or failure will not exceed 2 tries***

Passing grade is 70% for written exams and demonstration of competency by adequate performance of skill sets, per PA State Fire Academy Entry Level Fire Training Skills Sheets. Student is required to successfully pass the written and practical assessments.

Grades will be earned on total point basis with a percentage breakdown as follows:

94 --100 = A	83 -- 86 = B	73 -- 76 = C
90 -- 93 = A-	80 -- 82 = B-	70 -- 72 = C-
87 -- 89 = B+	77 -- 79 = C+	69 & Below = F

**ALL SKILL SETS ARE PASS / FAIL**

\* All examinations and practical skill sets will be in correlation with the Pennsylvania State Fire Academy curriculum

**Attendance requirements:**

Maximum amount of time that can be missed will be **10%** of each individual Level. The student is responsible to complete all reading and study guide assignments regardless of absence.

**STUDENT QUALIFICATIONS AND STUDENT SUPPLIED MATERIALS**

1. (a) The student must be fourteen (14) years of age prior to the first day of the class for Hazmat Awareness and Levels 1 through 3.  
(b) The student must be sixteen (16) years of age prior to the first day of the class for Hazmat Operations.
2. The student must show that he/she is insured against accidental injury.
3. The student is responsible to provide his/her own personal protective clothes and equipment.

The following minimum gear is required:

- a. Helmet, fire type (or equivalent) with full impact suspension and liner.
- b. Coat, fire type, with all liners in place.
- c. Pants, fire type, with all liners in place.
- d. Boots, fire type, rubber or leather. Boots must have steel toes and steel insole.
- e. Eye protection, full goggles or wraparound safety glasses are required. Helmet shields alone are not acceptable as eye protection.
- f. Fire type gloves of leather or Kevlar construction.
- g. Hearing protection, either earplugs or full coverage ear protectors.
- h. Notebook and writing implement for both the classroom and the field portions of the course.
- i. NFPA Compliant self-contained breathing apparatus (SCBA) for Level 2, Level 3 and HazMat Ops

**NOTE: ALL WEEKDAY CLASSES ARE FROM 1830 HOURS TO 2230 HOURS  
ALL WEEKEND CLASSES ARE FROM 0800 HOURS TO 1700 HOURS**

<b>Date &amp; Time</b>	<b>Course &amp; Topics</b>
<b>ELIS - MOD 1</b>	<b>PREREQUISITE - None</b>
Thursday 7/28/2022	PPE (Ch 5) / FF Safety / Work Area (Ch 1) / Tool ID (Ch 9)
Sunday 7/31/2022	Tool ID (Ch 9) (continued) / Orientation & Fire Service History (Ch 1) / Communications Ch 2) / <b>Skill</b> Communications
	<b>Skills</b> – PPE Inspection & Donning / <b>Skills</b> Tool ID / <b>Skill</b> Apparatus Mount & Dismount / <b>Skill</b> Establish Work Area
Thursday 8/4/2022	<b>Written Test</b> (25 Questions)
<b>16 Hours</b>	
Sunday 8/7/2022	<b>HAZMAT AWARENESS</b> 8am-12:00pm
<b>ELFG – MOD 2</b>	<b>PREREQUISITES – ELIS and HAZMAT AWARENESS</b>
Sunday 8/14/2022	Water Supply (Ch 13) / SCBA (Ch 5) / Fire Hose (Ch 12)
	Rope & Knots (Ch 7)
Thursday 8/18/2022	Scene Lighting (Ch 1) / Building Construction (Ch 3)
Sunday 8/21/2022	<b>Skills</b> Hose Rolls (Straight, Donut, Twin donut, Self-Locking Twin Donut) / <b>Skill</b> Inspection & Cleaning Hose / <b>Skills</b> Hose Loads Accordion (reverse) Flat Load (forward) / <b>Skills</b> Hose Lays Minuteman, Flat, Triple layer / <b>Skills</b> Water Supply (Hydrant LDH & Drafting)
Thursday 8/25/2022	<b>Skill</b> Cascade / <b>Skills</b> SCBA Inspection, Cylinder Replacement, Cylinder Refill
Sunday 8/28/2022	<b>Skills</b> Ropes & Knots (inspection, tying & hoisting) / <b>Skill</b> Scene Lighting
	<b>Written Test</b> (50 Questions)
<b>32 Hours</b>	
<b>ELEF – MOD 3</b>	<b>PREREQUISITES – ELFG, ICS 100b and IC 700a</b>
Thursday 9/8/2022	SCBA (Ch 5) / Fire Dynamics (Ch 4)
Sunday 9/11/2022	Extinguishers Ch 6) / Forcible Entry (Ch 9) / Fire Streams Ch 13) / Ladders (Ch 8)
Thursday 9/15/2022	<b>Skills</b> SCBA Donning
Sunday 9/18/2022	<b>Skill</b> Extinguishers (choose proper Extinguisher) / <b>Skills</b> Fire Streams / Ladders (demonstrations) / <b>Skill</b> Advance 1 ¾ charged line up a ladder and operate / <b>Skill</b> Advance 1 ¾ dry line up a ladder charge and operate

Thursday 9/22/2022	<b>Skills</b> Forcible Entry (Thru lock, Door, Window & Wall)
Sunday 9/25/2022	<b>Skills</b> Ladders 1FF Extension, 1FF straight roof, 2FF Extension, 3FF Extension, 4FF Extension / <b>Skill</b> Rescue Conscious Victim out window <b>Skills</b> Deploy supply line attach gated Y attach 1 ¾ hose lines with nozzle operate / 2 ½ hose operate with nozzle replace burst line
Thursday 9/29/2022	Written Test (75 Questions)
<b>40 hours</b>	
<b>HAZMAT OPERATIONS</b>	<b>PREREQUISITE – HAZMAT AWARENESS</b>
Sunday 10/2/2022	Intro & Overview (Ch1) / Properties & Effects (Ch2) /
	Recognition & Identification (Ch3)
Thursday 10/6/2022	Potential Harm (Ch4) / Implement Response (Ch5) / PPE (Ch8) / Product Control (Ch12)
Sunday 10/9/2022	<b>Skills:</b> Absorption, Adsorption, Divert, Dike, Retention. Overflow & Underflow Dams, Vapor Dispersion Vapor Suppression, Don & Doff PPE, Dilution <b><i>The Scene Control and Implement a response skills are part of skill stations 1, 2, 3 &amp; 4.</i></b>
Thursday 10/13/2022	Written Test (50 Questions) <i>Remediation</i>