

2011 Resident Schedule

**Resident Class Applications will be accepted on
or after JANUARY 10, 2011**

Please see “Course Descriptions” for details and prerequisites for each class.

Feb. 7-11	Officers’ Command (ZOCC)
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March 7-9	Building Construction: Wood & Ordinary-NFA (ZBCP)
March 9-10	Building Construction: Non-Combustible & Fire Resistive-NFA (ZBCN)
March 28-April 2	Command and Control of Incident Operations –NFA (CCIO)

April 4-8	Arson Detection & Fire Investigation (ZADI)
April 25-29	Engine Company Operations at Residential Fires (ZSFB)

May 6-7	Fire Fighter I Written/Skills Test (HACC - Certification Program)
May 24-26	Aerial Apparatus Operations (ZELA)
May 27	Driver/Operator – Aerial Test (SFA - Certification Program)

June 6-10	Engine Company Operations at Residential Fires (ZSFB)
June 11-12	Training Operations in Small Departments-NFA (TOSD)
June 21-23	Forcible Entry Operations (ZFEO)

July 18-23	Fire Officer I (ZFOI) (Resident and Certification Testing Programs)
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PA Weekend at the NFA

August 20-21, 2011 - **Course information packets will be available and applications will be accepted starting on March 28 through June 30, 2011**

Aug. 8-12	Fire & Arson Investigation – Electrical I (ZADE)
Aug. 26-28 and Sept. 16-18	Suppression Instructor Development (ZFID)
Aug. 29-Sept. 2	Structural Fire Ground Tactical Operations (ZSFX)
Aug. 29-Sept. 2	Structural Fire Ground Tactical Officers (ZSFO)

Sept. 19-23	Fire Operations at Large Structures (ZSFA)
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Oct. 17-21	Pump Operations (ZPUO)
Oct. 22	Driver/Operator – Pumper Test(SFA – Certification Program)
Oct. 24-28	Engine Company Operations at Residential Fires (ZSFB)

Nov. 5	Fire Fighter II Written/Skills Test (HACC - Certification Program)
Nov. 14-18	Educational Methodology (ZEMLL)
Nov. 14-18	Fire Instructor I (FI-I) (SFA - Certification Test Program)

COURSE DESCRIPTIONS and PREREQUISITES

Aerial Apparatus Operations (ZELA): This course provides instruction in basic operating principles and procedures of aerial apparatus. The type of apparatus available, their advantages and disadvantages, and their operability will be discussed. Proper placement and safety related aerial operations will be stressed. See course prerequisites and fees listed below. An additional day has been added for individuals interested in the opportunity to become certified at the **Driver Operator – Aerial** level (Certification Program). See **Driver/Operator – Aerial Test (Certification Program)** on next page for details on application, prerequisites, and fees.

ZELA PREREQUISITE: A Resident Application **AND** Introduction to the Fire Service (ELIS) or Introduction to Safety and the Training System (IST)

ZELA FEE: Private Industry or Federal Sector - \$25.00 per student
Out-of-State - \$125.00 per student

Arson Detection and Fire Investigation (ZADI): This course will provide instruction for fire and police officials who have the responsibility for fire investigation and cause/origin determination. Instructed by persons with extensive experience in the field, the course will cover those topics judged most important to persons involved in these activities.

PREREQUISITE: A letter from a mayor, police or fire chief, or other local government officials defining student's duties in this field.

FEE: Private Industry or Federal Sector - \$30.00 per student
Out-of-State - \$130.00 per student

Building Construction: Non-Combustible and Fire Resistive - NFA (ZBCN): The failure of a building or building components under fire conditions is a leading cause of fire fighter death and injury. The ability to recognize and locate relevant information about a building before a fire, and to “read” a building during the course of a fire incident, is essential survival skills. This course gives the student the ability to accomplish these tasks when confronted with a building of fire-resistive or non-combustible construction. The unique problems of conducting emergency operations in buildings under construction are also addressed.

PREREQUISITE: Introduction to the Fire Service (ELIS) or Introduction to Safety and the Training System (IST)

FEE: Private Industry or Federal Sector - \$10.00 per student
Out-of-State - \$110.00 per student

NOTE: The **Building Construction classes** are offered so that a student may take either one or both classes. The BCP course will start at 12 noon on the first day and conclude at 12 noon on the third day. The BCN course will start at 1pm on the first day and usually concludes by 4pm on the last day.

Building Construction: Wood and Ordinary-NFA (ZBCP): Failure of the building or building components under fire conditions is a leading cause of fire fighter death and injury. The ability to recognize or locate relevant information about a building before a fire, and to “read” a building during the progress of a fire, is essential survival skills. This course prepares the student to accomplish these skills in buildings of wood frame or ordinary construction.

PREREQUISITE: Introduction to the Fire Service (ELIS) or Introduction to Safety and the Training System (IST)

FEE: Private Industry or Federal Sector - \$10.00 per student
Out-of-State - \$110.00 per student

Command and Control of Incident Operations-NFA (CCIO) (N831): This course will study proper fire command techniques for control and extinguishment of fires ranging from small, residential structures to multi-occupancy, commercial complexes. Topics covered include problem-solving and fire command, interagency and mutual aid, the ICS, incident management, size-up and strategy, tactics and action plans, truck company operations, engine company operations, building construction and fire behavior, pre-incident preparation, incident organization, and strategic command. Special emphasis is placed on firefighter safety.

Student Selection Criteria: Individuals who have responsibility to command incidents within their jurisdiction, career officers of volunteer staffed fire departments, company officers, and/or newly appointed officers, including those in an acting position of company officer and/or newly appointed officers from small paid/combo fire departments.

PREREQUISITE: Both the Resident and NFA applications **AND** NIMS ICS for the Fire Service NFA (NICS-FS), **or** Incident Command System NFA (ICS) plus NIMS An Introduction (IS-700), **or** ICS-100 and ICS-200 plus NIMS An Introduction (IS-700), **or** an equivalent course(s) accredited by the Emergency Management Institute (EMI), National Fire Academy (NFA), National Wildland Coordinating Group (NWCG), US Coast Guard (USCG), or the National Park Service (NPS). **Note:** The Chief or Superior signature on the application is attesting that the applicant meets the above Student Selection criteria.

FEE: None

Driver/Operator – Aerial Test (Certification Program): This certification test is independent of the Aerial Apparatus Operations (ZELA) course. However, the course may assist you in preparing for the written and skills examination for this certification. Certification applications are available on our website (www.osfc.state.pa.us) in the Document Library. In the Document Library you will need to go to “Certification” and download the three documents for “Driver Operator – Aerial”; application, candidate handbook, and skill sheets. Please refer to the Candidate Handbook for details on preparing your application, necessary documentation needed, and equivalencies for some of the skill stations.

CERTIFICATION PREREQUISITES: A completed certification application **AND** a Fire Fighter 1 certification **AND** a copy of a Valid State Drivers License **AND** a copy of documents (CDL and/or EVOC course completion certificate) required for skill station(s) equivalency – if applicable.

CERTIFICATION FEE: None.

Driver/Operator – Pumper Test (Certification Program): This certification test is independent of the Pump Operations (ZPUO) course. However, the course may assist you in preparing for the written and skills examination for this certification. Certification applications are available on our website (www.osfc.state.pa.us) in the Document Library. In the Document Library, you will need to go to “Certification” and download the three documents for “Driver Operator – Pumper”; application, candidate handbook, and skill sheets. Please refer to the Candidate Handbook for details on preparing your application, necessary documentation needed, and equivalencies for some of the skill stations.

CERTIFICATION PREREQUISITES: A completed certification application **AND** a Fire Fighter 1 certification **AND** a copy of a Valid State Drivers License **AND** a copy of documents (CDL and/or EVOC course completion certificate) required for skill station(s) equivalency – if applicable.

CERTIFICATION FEE: None

Educational Methodology (ZEMLL): This course will provide instruction in adult learning, teaching techniques, preparation of instruction objectives and formation of lesson plans to meet those objectives. Various formats of audio-visuals will be demonstrated. Each student will prepare and deliver more than one (1) teaching session. There will be evening classroom sessions and homework. Successful completion of this course is necessary to become an instructor without any prior teaching experience. Individuals interested in the opportunity to become certified at the **Fire Service instructor I** level (Certification Program) at the conclusion of the EMLL course may do so. See **Fire Service Instructor I (Certification Program)** on next page for details on application, prerequisites, and fees.

ZEMLL PREREQUISITE: A Resident application **AND** a letter/memo from their superior stating that the applicant has been an Emergency Service Provider for a minimum of 5 years service.

ZEMLL FEE: Private Industry or Federal Sector - \$45.00 per student

Out-of-State - \$145.00 per student.

** All students will be required to purchase books for this class which will be explained in their acceptance letter.

Engine Company Operations at Residential Fires (ZSFB): This course is designed for fire fighters who have completed the necessary basic training and desire to develop and improve their skills and knowledge of single engine company operations. Topics include: review of structural fire behavior, fire ground safety, hoseline advancement and attack procedures, SCBA systems and practice, organized fire attack, forcible entry, and ground ladder handling. Live fire evolutions conclude the course.

PREREQUISITE: Interior Firefighter (ELIF) or Essentials Module I (EBM) or Fire Fighter I

FEE: Private Industry or Federal Sector - \$100.00 per student

Out-of-State - \$200.00 per student

Fire and Arson Investigation - Electrical I (ZADE): This 40 hour course provides the fire investigator with knowledge of basic electrical theory and the behavior of errant electricity and resultant fire. It also provides the student with knowledge of the proper installation of electrical systems in accordance with the National Electrical Code. Taught by experienced investigators in this field, this course includes "hands-on" activities which feature correlation of burn patterns and electrical systems.

PREREQUISITE: Arson Detection and Fire Investigation (ZADI)

FEE: Private Industry or Federal Sector - \$30.00 per student

Out-of-State - \$130.00 per student

Fire Fighter I and II Written/Skills Test (HACC Certification Program): The purpose of this program is to identify emergency service personnel who demonstrate competency in the performance requirements necessary to perform the duties of a firefighter. The NFPA 1001 Standard for Fire Fighter Professional Qualifications, 2008 edition, identifies the minimum requirements for a fire fighter at two (2) levels of progression. A person certified will have demonstrated competency in the necessary knowledge and skills to function safely and effectively as a member of a firefighting team with Level I as working under direct supervision and Level II under general supervision with greater competency.

PREREQUISITE for Written/Skills Test: A completed Certification application for "Fire Fighter I or II" with supporting documentation. The FF1 and FF2 certification tests will be held at the PSFA in conjunction with HACC Test Site #10. Applications need to be sent two (2) weeks prior to the certification test date to: Perry Peirich, Public Safety Institute, 1 HACC Drive, Harrisburg, PA 17110. Please contact Perry Pierich for information at (717) 780-2537 or plpieric@hacc.edu. You may also refer to the Office of the State Fire Commissioner's Web Site, www.ofsc.pa.us for information on application, prerequisites, skill sheets and the candidate handbook.

FEE: \$200.00 per candidate per level due on/by the day of testing. Make checks out to "Harrisburg Area Community College".

Fire Officer I (ZFOI) (6 day class with Certification Test): This course is designed to improve the ability of fire officers throughout Pennsylvania and to prepare the student for certification as a Fire Officer I. Students will be taught the basic principles of fire officership including management and command. Students attending this course should be experienced fire fighters who are or wish to become fire officers. There will be homework assignments each evening. These assignments will be the development of documents required for many of the skill stations in the Fire Officer I certification skills test. The certification written examination will be given on the last day of the course and any remaining skill stations will be completed. Certification applications are available on our website (www.osfc.state.pa.us) in the Document Library. In the Document Library, you will need to go to "Certification" and download the three documents for "Fire Officer I"; application, candidate handbook, and skill sheets. Please refer to the Candidate Handbook for details on preparing your application and necessary documentation needed.

PREREQUISITE: Applicants MUST submit BOTH the Resident application and a completed Fire Officer I certification application with the required supporting documentation.

FEE: Private Industry or Federal Sector - \$45.00 per student
Out-of-State - \$145.00 per student

** ALL STUDENTS will be required to purchase text books for this class which will be explained in their acceptance letter.

CERTIFICATION PREREQUISITE (supporting documentation): Course completion certificate for the *NFA Incident Command System Course (ICS)* **OR** *NFA NIMS ICS for the Fire Service (NICS-FS)* **OR** *NFA NIMS ICS for EMS (NICS-EMS)* **OR** *NFA ICS-100 or 100.a; Introduction to the Incident Command System AND ICS-200 or 200.a; ICS for Single Resources and Initial Action Incidents, **AND** Fire Fighter II certification **AND** Fire Service Instructor I certification, **AND** completion of *Hazardous Materials Operations 472* training or refresher course within the last 12 months **OR** *Hazardous Materials Operations 472* certification **OR** completion of *Hazardous Materials Technician Level 472* training within the last 12 months **OR** *Hazardous Materials Technician 472* certification.*

CERTIFICATION FEE: None

Fire Operations at Large Structures (ZSFA): This course is designed to give experienced fire fighters the necessary skills and knowledge to function efficiently as a member of an engine or a truck company in a multi-company, multi-floor operation. Topics include: rope practices, ventilation theory and operations, multi-level ladder practices, resource management and ICS for large buildings, multiple engine company operations, fire protection systems, SCBA practices, hose advancement, structural fire fighting principles, water supply preparation and manning for large scale operations, and high rise problems and principles.

PREREQUISITE: Engine Company Operations at Residential Fires (ZSFB)

FEE: Private Industry or Federal Sector - \$100.00 per student
Out-of-State - \$200.00 per student

Fire Service Instructor I (Certification Program): Individuals interested in the opportunity to become certified at the **Fire Service instructor I** level (Certification Program) at the conclusion of the EMLL course may do so under the following circumstances. These individuals MUST submit a completed Fire Instructor I Certification application along with the ZEMLL course application. Certification applications are available on our website (www.osfc.state.pa.us) in the Document Library. In the Document Library, you will need to go to "Certification" and download the three documents for "Fire Service Instructor I"; application, candidate handbook, and skill sheets. Please refer to the Candidate Handbook for details on preparing your application and necessary documentation needed.

CERTIFICATION PREREQUISITE: A completed Fire Service Instructor I application.

CERTIFICATION FEE: None

Forcible Entry Operations (ZFEO): This course will provide the fire fighter with a better understanding of building construction as applies to forcible entry. Also covered will be opening techniques and the use of tools for safe, quick access to a structure.

PREREQUISITE: Interior Firefighter (ELIF) or Essentials Module I (EBM)

FEE: Private Industry or Federal Sector- \$35.00

Out-of-State - \$135.00

** ALL STUDENTS will be required to pay a special equipment fee on the first day of class.

This fee should not exceed \$50.00 and will be listed in student acceptance letters.

Officers' Command (ZOCC): This course is designed for fire officers and officer candidates who desire a well rounded introduction to fire ground command principles. Classroom sessions will cover the basic areas of concern requiring the attention of command officers. The highlight of the course is the creation by student teams of a hypothetical "fire department" to handle a variety of simulated fire emergencies

ZOCC PREREQUISITE: *NIMS Incident Command System for the Fire Service – NFA* (NICS-FS) **OR** either ICS-100 or 100.a: *Introduction to the Incident Command System* (ICS-100) **AND** either ICS-200 or 200.a: *ICS for Single Resources and Initial Action Incidents* (ICS-200)

FEE: Private Industry or Federal Sector - \$45.00 per student

Out-of-State - \$145.00 per student.

Pennsylvania Weekend at the National Fire Academy: This Annual Weekend Program, offered exclusively for the Pennsylvania Fire Service, is a joint venture between the State Fire Academy and the National Fire Academy. The PA State Fire Academy requests and sponsors this weekend, identifies the courses, and recruits and selects the students. The National Fire Academy hosts the Weekend and delivers the selected courses. Applications will be available in March.

Pump Operations (ZPUO): This course provides the student with the intermediate and advanced skills and knowledge necessary to operate fire department pumpers. Topics include: basic pump theory, construction and hydraulic calculations, priming and pressure control systems, principles of operating at draft and hydrant, relay operations and preventive maintenance. See course prerequisites and fees listed below. An additional day has been added for individuals interested in the opportunity to become certified at the **Driver Operator – Pumper** level (Certification Program). See **Driver/Operator – Pumper Test (Certification Program)** on a previous page for details on application, prerequisites, and fees.

ZPUO PREREQUISITE: A Resident Application **AND** Pump Operations I (PUOP) or Pump Operations II (PUOA)

ZPUO FEE: Private Industry or Federal Sector - \$45.00 per student

Out-of-State - \$145.00 per student

Structural Fire Ground Tactical Officer (ZSFO): This 30-hour course provides a "hands-on" fire ground command training experience. After two days of review of command techniques and fire ground operating principles, students are merged with an ongoing Structural Fire Ground Tactical Operations class and assigned to various command functions. They will take command of students and direct activities in live-fire evolutions conducted as part of that course.

PREREQUISITE: BOTH Officer's Command (ZOCC) **AND** Structural Fire Ground Tactical Operations (ZSFX)

FEE: Private Industry or Federal Sector - \$165.00 per student

Out-of-State - \$265.00 per student

Structural Fire Ground Tactical Operations (ZSFX): This course is designed as a review of material covered in ZSFB and ZSFA, with emphasis on multiple company operations. Topics include: principles of truck company operations, organizing and manning truck company operations, ICS principles and practices, search and rescue, ventilation, and two (2) days of live fire evolutions.

PREREQUISITE: Fire Operations at Large Structures (ZSFA)

FEE: Private Industry or Federal Sector - \$120.00 per student

Out-of-State - \$220.00 per student

Suppression Instructor Development (ZFID): See next page for course description and prerequisites

Training Operations in Small Departments-NFA (TOSD) (F290): This 2-day course is designed to provide students with some basic tools and skills to coordinate training in a small fire/EMS organization. A training function in a smaller department typically may include conducting training drills and coordinating training with a nearby larger city or as a State training function. Course content includes: leadership issues in fire service training, such as why and how the local training officer must be a catalyst for change, and personal motivators within the department; identifying the legal issues affecting the training function, including an understanding of a standard of care, and the impact of OSHA and NFPA standards; safety considerations in training; marketing training internally; identifying ways to justify training needs; resolving training conflicts using appropriate conflict resolution techniques; selecting and evaluating training curriculum and materials from outside sources; and effective delivery and evaluation of training.

Student Selection Criteria: Fire and rescue personnel who coordinate training in small departments; volunteer firefighters and officers who instruct in small fire and rescue departments; fire personnel serving on training committees; or training officers in volunteer fire departments. **Note:** Students who have taken the NFA's *Challenges for Local Training Officers* through the Volunteer Incentive Program are **not** encouraged to take this course.

PREREQUISITE: Both the Resident and NFA applications **AND** documentation or a letter from a chief or superior defining the applicants duties and stating that the applicant meets the selection criteria listed above.

FEE: None

Suppression Instructor Development (ZFID): This 44 hour Pennsylvania State Fire Academy Resident Class is designed to develop and evaluate the instructional skills of a Suppression Level Instructor Candidate. The program is designed to focus the Candidates' teaching toward successful presentation of the Delmar Essentials of Fire Fighting and Structural Burn Session programs, in conformance with established policies and procedures of the PA State Fire Academy. The program, coupled with mentoring by more experienced Suppression Level Instructors, will serve as a Train-the-Trainer for the ELIS, ELFG, ELEF, ELIF and SBS programs.

FEE: None

PREREQUISITE

_____ Incident Safety Officer – NFA – ISO.

_____ Educational Methodologies for Local Level Instructors – EMLL

Acceptable Alternatives

_____ National Fire Academy Resident Course R-114 Fire Service Course Design or its predecessor Fire Service Instructional Methodology.

_____ Certification as a Fire Instructor II (NBFSPQ **or** IFSAC).

_____ Certification as an EMT Instructor by the Pennsylvania Department of Health.

_____ PA Department of Conservation and Natural Resources Instructor Trainer Course (30 hours – Sir Stanford Fleming College).

_____ Certification as a public school teacher by the Pennsylvania Department of Education; secondary or post-secondary certification preferred.

_____ A post-secondary collegiate-level course in adult education methodology awarding at least 1 college credit.

_____ PA State Police Bureau of Training & Education Instructor Development

_____ Certification as a “General Instructor” by the PA Municipal Police Officers’ Education & Training Commission (MPOETC)

_____ WMD Instructor Training Course (COBRA)–US Office of Domestic Preparedness

_____ A formal course of instruction in adult educational methodology and instructing adults of at least 30 hours duration conducted by another State’s fire training system, military services, state/federal agency, or other organization.

_____ Engine Company Operations at Residential Fires – ZSFB
and Fire Operations at Large Structures – ZSFA.

Acceptable Alternatives

_____ Completion of the Department of Defense/US Air Force Fire Protection Specialist Technical Training Course at Goodfellow Air Force Base, Texas or (formerly) Chanute Air Force Base, Illinois.

_____ Harrisburg Area Community College, Public Safety Center’s firefighter recruit class for career departments.

_____ Completion of a recruit level formal course of **not less than 150 hours** in length (with emphasis on structural firefighting) required as a condition of employment in a career department.

_____ Fire Fighter II Certification (NBFSPQ or IFSAC).

_____ Fire Service Instructor I (NBFSPQ or IFSAC).

_____ 150 hours of documented Structural Track Training.

NOTE: 60 hours from ZSFB and ZSFA **or** one of the “acceptable alternatives” for ZSFB/ZSFA can be calculated as part of the 150 hours; however, 90 hours of documentation from the PA State Fire Academy Resident or Local Level Structural Track Training **MUST** be attached to the ZFID application.

_____ 8 years of active fire service.

_____ 26 years of age or older.

_____ 3 letters of reference from PSFA Local Level “Suppression Level” Instructors.

Structural Track Courses Consist of:

Advanced Fire Fighting (AFF)

Essential of Firefighting (EBM)

Forcible Entry (TFE)

Essentials Refresher (EFR)

Introduction to the Fire Service - Fire Ground Support - Exterior Firefighting - Interior Firefighter

Respiratory Protection I or II (REPA or REPR)

Truck Co. Ops. I or II (TRCO or ATRC)

Engine Co. Ops. (ECOP)

High Rise Fire Fighting (HIRI)

Store/Mall/Mercantile Fire Fighting (MIFI)

Structural Burn Session (SBS)

Structural Fire Rescue (SFR)

Ventilation Practices (TRVP)

Farm/Barn Fire Fighting (FAFI)

Firefighter I Skills Enhancement