

COURSE DESCRIPTIONS

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. Two additional days have been added for individuals interested in the opportunity to become certified at the **Driver Operator – Aerial level (Certification Program)**. The first of these two additional days (as well as the 3 day class) is a practice day added as preparation for the certification test held on the final day. This practice day and certification test is optional, however, the practice day is highly recommended if individuals are testing for certification. Certification applications are available on our website (www.osfc.state.pa.us). Certification applicants will need to download all 3 documents for this test; 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 skills stations.

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

CERTIFICATION PREREQUISITES: A completed Driver Operator-Aerial certification application with the required supporting documentation as stated on the application.

CERTIFICATION FEE: None.

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): In this course students 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 supervisor's signature on the application is attesting that the applicant meets the above student selection criteria.

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. **It is highly recommended that students utilize local lodging for this course.** 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 (FSI-I) level (Certification Program)** at the conclusion of the EMML course may do so. Certification applications are available on our website (www.osfc.state.pa.us). Certification applicants will need to download all 3 documents for this test; application, candidate handbook, and skill sheets. Please refer to the Candidate Handbook for details on preparing your application and necessary documentation needed.

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 8 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.

CERTIFICATION PREREQUISITE: A completed FSI-I certification application with the required supporting documentation as stated on the application.

CERTIFICATION FEE: None

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 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 Department Training Day (FDTD): These days are set aside for Fire Departments throughout Pennsylvania to use our facility for classroom, drill ground, and live burn training. If a Fire Department is interested in using our facility and would like to obtain more detailed information, call the State Fire Academy (717-248-1115/800-459-4096) for the Facility Usage Packet or you can check out our website (www.osfc.state.pa.us). The application must be submitted to the State Fire Academy at least 6 (six) weeks prior to the date(s) that your Fire Department would like to request. For any interested private industries, federal agencies, or organizations from out of state, there may be a fee.

Fire Fighter I and II Written/Skills Test (HACC Certification Program): The NFPA 1001 Standard for Fire Fighter Professional Qualifications test measures the minimum competencies 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.

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 three (3) 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 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 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. **It is highly recommended that students utilize local lodging for this course.** 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 final day of the course and any remaining skill stations will be completed. Resident and Certification applications are available on our website (www.osfc.state.pa.us). Applicants will need to download all 3 certification documents; application, candidate handbook, and skill sheets. Please refer to the Candidate Handbook for details on preparing your certification 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 as stated on the application.

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

****ALL STUDENTS** will be required to bring their own text book(s). Specific text book(s) will be explained in the students’ acceptance letter.

CERTIFICATION FEE: None

Fire Officer II (ZFOII) (6 day class with Certification Test): This course is designed to improve the ability of fire officers throughout Pennsylvania and prepare the student for the certification as a Fire Officer II. It focuses on highly specialized and complex issues and exposes the company officer to inner workings and dynamics of a typical fire service organization. This program is made up of numerous lessons with PowerPoint presentations, interactive classrooms discussions, reading assignments and homework. **Because of the nature of this program, only persons that are willing to complete extensive reading and homework assignments should apply and should consider using local lodging for this course.** The certification written examination will be given on the final day of the course and any remaining skill stations will be completed. Resident and Certification applications are available on our website (www.osfc.state.pa.us). Applicants will need to download all 3 certification documents; application, candidate handbook, and skill sheets. Please refer to the Candidate Handbook for details on preparing your certification application and necessary documentation needed.

PREREQUISITE: Applicants MUST submit BOTH the Resident application with proof of Fire Officer I and Fire Instructor I **AND** a completed Fire Officer II certification application with the required supporting documentation as stated on the application.

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

****ALL STUDENTS** will be required to bring their own text book(s). Specific text book(s) will be explained in the students' acceptance letter.

CERTIFICATION FEE: None

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 pumps. 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. An additional day has been added for individuals interested in the opportunity to become certified at the **Driver Operator – Pumper level (Certification Program)**. Certification applications are available on our website (www.osfc.state.pa.us). Certification applicants will need to download all 3 documents for this test; 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 skills stations.

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

CERTIFICATION PREREQUISITES: A completed Driver Operator-Pumper certification application with the required supporting documentation as stated on the application.

CERTIFICATION FEE: None.

Strategy and Tactics for Initial Company Operations – NFA (STICO): Student completing this course will be able to explain the purpose and use of the communications model and the Quick Access Prefire Plan (QAP) in tactical operations at fire incidents, define the relationship between incident priorities, strategy, tactics, and implementation in the Command Sequence, select the appropriate strategic mode based on consideration of risk/benefit and available resources, describe the six steps required to implement the Tactical Action Model and the factors on which apparatus placement is based, select appropriate ventilation tactics, select appropriate rescue tactics and develop a rescue action plan, identify and explain the actions required to support fire confinement and extinguishment activities, select and deploy the appropriate hoselines to accomplish fire confinement and extinguishment, describe the correct procedures for deployment of a hoseline from standpipe system, identify tactical considerations for proving a water supply to meet incident needs, identify principles and tactics for establishing water supplies from municipal sources, static sources, and portable sources, for protecting exposures, for achieving salvage, and for achieving overhaul, identify the special construction factors of single family dwelling involved in fire demonstrate the ability use the Communications Model, determine appropriate strategy, select correct tactics, and operate within an appropriate Incident Command System (ICS) organization at a fire in a single family dwelling.

Student Selection Criteria: Company officers or senior firefighters responsible for the management of a single fire company during fireground operations.

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

FEE: None

Structural Fire Ground Tactical Officer (ZSFO): This 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): 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