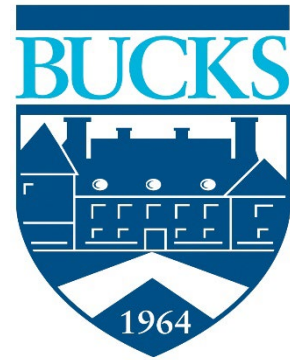


# ***Bucks County Community College***



## ***Local Level Emergency Services Training Catalog 2025-2030***

*Revised Last: 2025*

Department of Public Safety Training & Certification

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**Newtown Business Office**  
275 Swamp Road , Cottage 1  
Newtown, Pennsylvania 18940  
Ph. 267-685-4888 Fax 215-497-8721

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**Doylestown Training Facility**  
1760 South Easton Road  
Doylestown, Pennsylvania 18901

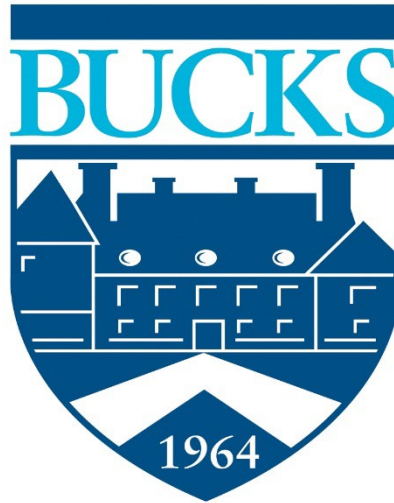
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**Bristol Training Facility & Office**  
2912 River Road  
Croydon, Pennsylvania 19021  
Ph. 267-685-4888 Fax 215-788-4906

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Website: <http://www.bucks.edu/publicsafety>

# Bucks County Community College



## Public Safety Training and Certification

Bucks County Community College is committed to providing equal educational and employment opportunities. This encompasses persons in legally protected classifications in regard to race, color, natural origin, sex, handicap, sexual orientation, age, religion, disabilities, and Vietnam military veterans. The college provides reasonable accommodations for persons with disabilities in accordance with the Americans with Disabilities Act (ADA). Please call the Campus Coordinator for Equal Employment Opportunities in advance to request or clarify accommodations or to address issues concerning equal opportunities at 215-968-8090. The EEO Office is located in Room 135, Tyler Hall.

The Security Information Report required by the College and University Security Act of Pennsylvania and the Student Right-To-Know and Campus Security Act of the Federal Government is available in the Office of Safety and Security and at other campus locations.

### Bucks County Community College

Accredited by:



## **Welcome**

Bucks County Community College takes great pride in our role to train the emergency responders of Pennsylvania. Through the years, we have developed and implemented a solid customer service program, an abundance of emergency services training opportunities, and a positive educational experience for all of our fellow emergency responders.

Now serving the sixty-seven counties of Pennsylvania, Bucks stands ready to meet the training needs of Pennsylvania's emergency response community. We will continue to work hard to support the Office of the State Fire Commissioner and the mission of the program, to provide training for the emergency response organizations within the Commonwealth.

As members of the emergency service family, we know the importance of "on demand training". Supporting this training is our responsibility; we stand ready and committed to our mission, helping you to help others in need.

If you have already experienced training with Bucks County Community College, we thank you and hope that you will continue your relationship with us. If you have not used Bucks in the past, we invite you to try the Bucks experience. We will not disappoint you or your organization.

Our commitment is simple, a solid customer service philosophy, quality programming, and resource support for a positive training experience. Many frequently asked questions are answered in this catalog. We hope that you will provide us the opportunity to be your educational training agency.

Thank You,

The Staff



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***Department of Public Safety Training and Certification***

Visit us on the Web at: <http://www.bucks.edu/publicsafety>

Phone – 267-685-4888

Email – [Fireschool@bucks.edu](mailto:Fireschool@bucks.edu)

**Public Safety Training & Certification Programs**

*Executive Director, Department of Contracted Public & Industrial Safety Training & Certification*

**Matthew Hatrak**

Cell: 610-227-5467

Email: [Matthew.Hatrak@bucks.edu](mailto:Matthew.Hatrak@bucks.edu)

**State Training Program**

*Director, State Training (Central Region)*

**Randy Santone**

Cell: 814 – 935 – 3686

Email: [Randy.Santone@bucks.edu](mailto:Randy.Santone@bucks.edu)

*Central Region Counties include:* Adams, Blair, Centre, Clinton, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lycoming, Mifflin, Montour, Northumberland, Perry, Potter, Snyder, Tioga, Union.

*Assistant Director, Field Operations (Western Region)*

**Robert Opett**

Cell: 814-659-9313

Email: [Robert.Opett@bucks.edu](mailto:Robert.Opett@bucks.edu)

*Western Region Counties include:* Allegheny, Armstrong, Beaver, Bedford, Butler, Cambria, Cameron, Clarion, Clearfield, Crawford, Elk, Erie, Fayette, Forest, Greene, Indiana, Jefferson, Lawrence, McKean, Mercer, Somerset, Venango, Warren, Washington, and Westmoreland.

*Assistant Director, Field Operations (Eastern Region)*

**Jeremy Glass**

Cell: 814-931-0645

Email: [Jeremy.Glass@bucks.edu](mailto:Jeremy.Glass@bucks.edu)

*East Region Counties include:* Berks, Bradford, Bucks, Carbon, Chester, Columbia, Delaware, Lackawanna, Lancaster, Lebanon, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, Pike, Schuylkill, Sullivan, Susquehanna, Wayne, Wyoming, and York.

**Certification & Curriculum**

Email – [PSCertification@bucks.edu](mailto:PSCertification@bucks.edu)

*Director, Certification & Curriculum*

**Earl Freese**

Office: 215-968-8190

Email: [Earl.Freese@bucks.edu](mailto:Earl.Freese@bucks.edu)

*Assistant Director of Certification & Curriculum*

**Elizabeth Ellis**

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Email: [Elizabeth.Ellis@bucks.edu](mailto:Elizabeth.Ellis@bucks.edu)



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**Support Staff & Office Management**

*Training Coordinator*

**Amanda Bilton** Office: 215-968-8029 Email: [Amanda.Bilton@bucks.edu](mailto:Amanda.Bilton@bucks.edu)

*Program Coordinator, Contracted Training & Education*

**Pam Worton** Office: 215-504-8515 Email: [Pamela.Worton@bucks.edu](mailto:Pamela.Worton@bucks.edu)

**Directory of Pennsylvania State Fire Academy / Commissioner Office**

*Thomas Cook - Pennsylvania State Fire Commissioner*

***Office of the State Fire Commissioner***

P.O. Box 3321

Harrisburg, Pa 17105

**Office:** 717.651.2200 **Fax:** 717.651.2210

*If you are outside of the (717) area code, call **toll free at 800-670-3473***

Harvey Boyer – Administrator State Fire Academy

***Pennsylvania State Fire Academy***

1150 Riverside Drive

Lewistown, Pa 17044-1979

**Office:** 717.248.4096 **Fax:** 717.248.3580

*If you are outside of the (717) area code, call **toll free at 800-459-4096***

**Website:** <http://www.osfc.state.pa.us>



## **The Training Program**

The Local Level Program is the longest running, organized training program conducted by the Commonwealth of Pennsylvania. This type of training continues to increase the effectiveness of Pennsylvania's emergency service organizations, by centering the training on the organization's specific equipment and apparatus.

"Hands on" training comprises a major part of the instructor's responsibilities. The adjunct instructor must organize the group in such a way that each student experiences as much practice as is necessary to gain competency.

This training introduces the most effective methods for using the equipment and apparatus available to the student. Occasions do occur in which the equipment of a particular organization is limited. When necessary, the instructor will use additional equipment or apparatus from mutual aid organizations to facilitate the various training programs.

The Bucks County Community College will **NOT** facilitate and/or conduct live fire training sessions in acquired structures. Bucks County Community College will continue to support live fire training sessions at fixed fire training facilities that have provided evidence of compliance with NFPA 1403, chapter 5, section 5.2.2.2 and chapter 6, section 6.2.2.2.

Furthermore, all training sessions utilizing an acquired structure will be required to provide Bucks County Community College with evidence of a completed and accurate Asbestos Abatement & Demolition/Renovation Notification Form (DEP Form #2700-FM-AQ0021), as well as, a notarized document ensuring the legal property owners release of said property for training purposes, prior to approval of the training session. Additional permits from the Department of Environmental Protection (DEP) may be required. The requesting or hosting agency is responsible to obtain all permits and fees that may apply.

In addition, customized training is available for public safety organizations and industrial facilities. For additional information, contact the respective field director (see page 4).

## **Course Content and Format**

Instruction consists of classroom discussions, demonstrations, lectures, practical applications, and drills necessary to develop proficiency in the handling of fire department apparatus, tools, and appliances. Topics such as forcible entry, fire suppression, hose line advancement, ladder and fire stream practices, salvage and overhaul, rescue, and other subjects are presented as outlined.

Limited courses relating to technical subjects that are important to the emergency services are presented to the first responders. All courses offered (except as noted) are approved by the Pennsylvania State Fire Academy; a minimum standard for accreditation has been established for course content and learning objectives.



## **Length of Course**

The length of each course varies depending on the nature of the subject. Classes usually meet for a four-hour evening session or for eight hours on Saturday and Sunday (allowing participants to complete a 16-hour course in one weekend). Students will receive a 15-minute break during evening sessions, lunch and 15-minute breaks during the eight-hour sessions.

Weekday classes usually begin between 18:00 and 19:00 hours and weekend classes usually begin at 08:00. For information on specific class times and location, you may contact the hosting organization listed on our website under training and certification information, then clicking on the [Courses by County](#) page or call the main office at 267-685-4888.

## **Training Request**

The attached list of courses is available and may be requested any time throughout the year by completing the "Local Level Course Application" in the back of this catalog. The application should be submitted at least eight (8) weeks prior to the course starting date. For Pay as You Go Members please submit payment or company purchase order with application. All other memberships please see the Training Membership Program (TMP) information in the back of this catalog. This will allow sufficient time to contract instructors and forward course materials to the training site.

We recommend that you contact the adjunct instructor(s) to establish dates and times acceptable for both parties, before submitting the course application to the Department of Public Safety Training & Certification. This will speed up the application process and insure instructor availability. If you cannot locate an instructor, or need assistance with processing the "Local Level Course Application", contact your respective field director and they will assist you.

## **Course Enrollment and Cancellation Policy**

The required minimum class size is 10 students for most local level training programs. Some training courses may require additional students to maintain the safety and integrity of the course as defined in the minimum standard of accreditation (MSA). A minimum of 15 students is required for all professional certification courses and certification challenge testing. The local contact person should notify the adjunct instructors ten days before the start of the course, if the required number of students has not been met. Approval to run the class, regardless of the number of registered students, may be obtained by contacting your respective field director. Contact numbers are available on page 4 of this catalog.





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Training courses can be cancelled, with no cost to the sponsoring organization, ten days prior to the start date. If approval to run a program under the required class size cannot be obtained, the sponsoring organization may elect to conduct the course by completing the local level service agreement; or contacting your respective field director.

To proceed with the "buy out" option, the instructor will provide the sponsoring organization with a service agreement before the start of the program. This agreement must be signed by a representative of the sponsoring agency and returned to the instructor. The sponsoring agency will be charged for the number of students under the class minimum at the rate specified in the agreement. The organization should then forward a check to Bucks County Community College (The class section number should be listed on the check.)

If the sponsoring organization does not cancel the course 10 days in advance, the sponsoring organization will be charged for the instructor's incurred costs and lost wages for the course. The instructor's wages are calculated at the currently approved rate per hour. Failure to pay this fee will result in a sponsoring agency being suspended from local level training. All courses have maximum student enrollment levels established as well as a minimum. Please review these requirements with the instructor while making arrangements for the course.

### **Course Locations**

Sessions are traditionally held at local emergency service stations where the necessary apparatus, tools, and equipment are available to the instructor and the class. Course locations and section numbers may be found on our website under training and certification information, then clicking on the [Courses by County](#). Contact your respective field director or the main office for additional detailed information.

### **Instructor Credentials**

Instructors are selected from the list of certified state instructors approved by the Pennsylvania State Fire Academy. Each instructor must meet the Pennsylvania State Fire Academy instructor requirements for each course taught. Bucks County Community College must contract all instructors, including assistants, prior to their teaching of a course.

As our customer, you may request a specific instructor to present the program. Our policy is that instructors are assigned by credentials and availability. Bucks County Community College will make every effort to provide any requested instructor; however, please keep in mind that the possibility of rescheduling courses exists, if the requested instructor is not available for your specific course dates. If we cannot find a qualified instructor (requested or randomly assigned) for your specific dates, the course will be rescheduled or cancelled. We suggest that you contact your local field director for any instructor assignment information.





## **Student Responsibilities**

Students are responsible for the material presented in each class. It is each student's responsibility to make up assignments and attendance in a course as required. Individual student requirements and conduct shall be in accordance with established Pennsylvania State Fire Academy and Bucks County Community College policies as stated by the instructor at the beginning of class. Students will be removed from class if they are in violation of these established policies. If the course requires prerequisite training and/or national certification the student must have proof of such on the first scheduled meeting of the class. Some courses may require published text book(s); this will also be the student's responsibility to have the required text book(s) on the first scheduled day of the class. Tuition, lunch, and facility use fees (where applicable) will **NOT** be refunded to the student or their sponsoring organization.

## **Training Certificates**

Each student will be awarded a Certificate of Training after successful completion of the course. Absence from 20% of the prescribed hours automatically disqualifies a student from receiving a certificate, unless the missed training sessions are made up with an approved instructor. The lead instructor must be notified immediately of possible class absences. Reasonable accommodations will be made for students with valid justification. Some courses do require 100% attendance depending on the curriculum being presented.

## **Course Cost**

Bucks County Community College offers several methods to pay for training and certification. Depending on the amount of training and certification an individual department is planning on hosting; they will have the option to pay by the program or purchase one of the Training Membership Programs (TMP). Training Membership Programs offer two hundred (200) hours of training and different levels of certification, making them great bargains for departments looking for different amounts of training and/or certification. Please see our complete TMP brochure in the back of this catalog for all training costs. Any additional questions regarding training costs can be directed to your local field director.



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## Certifications Currently Offered

Discipline	NFPA-Year	Certificate
1. Hazardous Materials Responder at the Awareness Level	470-2022	ProBoard
2. Hazardous Materials Responder at the Operations Level (Chapter 5)	470-2022	ProBoard
3. Hazardous Materials Responder at the Operations Level: Personal Protective Equipment Mission Specific Competency	470-2022	ProBoard
4. Hazardous Materials Responder at the Operations Level: Product Control Mission Specific Competency	470-2022	ProBoard
5. Hazardous Materials Responder at the Operations Level: Mass Decontamination Mission Specific Competency	470-2022	ProBoard
6. Hazardous Materials Responder at the Operations Level: Technical Decontamination Mission Specific Competency	470-2022	ProBoard
7. Hazardous Materials Responder at the Operations Level: Detection, Monitoring, and Sampling Mission Specific Competency	470-2022	ProBoard
8. Hazardous Materials Technician Level	470-2022	ProBoard
9. Hazardous Materials Incident Commander	470-2022	ProBoard
10. Hazardous Materials Safety Officer	470-2022	ProBoard
11. Fire Fighter 1	1001-2019	ProBoard
12. Fire Fighter 2	1001-2019	ProBoard
13. Driver Operator – Pumper	1002-2017	ProBoard
14. Driver Operator – Aerial Device	1002-2017	ProBoard
15. Driver Operator – Aircraft Rescue and Fire Fighting Apparatus	1002-2017	ProBoard
16. Driver Operator – Mobile Water Supply Apparatus	1002-2017	ProBoard
17. Driver Operator – Tiller	1002-2017	ProBoard
18. Airport Firefighter	1003-2019	ProBoard
19. Confined Space Technical Rescuer at the Awareness Level	1006-2021	ProBoard
20. Confined Space Technical Rescuer at the Operations Level	1006-2021	ProBoard
21. Confined Space Technical Rescuer at the Technician Level	1006-2021	ProBoard
22. Rope Technical Rescuer at the Awareness Level	1006-2021	ProBoard
23. Rope Technical Rescuer at the Operations Level	1006-2021	ProBoard
24. Rope Technical Rescuer at the Technician Level	1006-2021	ProBoard
25. Structural Collapse Technical Rescuer at the Awareness Level	1006-2021	ProBoard
26. Structural Collapse Technical Rescuer at the Operations Level	1006-2021	ProBoard
27. Structural Collapse Technical Rescuer at the Technician Level	1006-2021	ProBoard



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28. Trench Technical Rescuer at the Awareness Level	1006-2021	ProBoard
29. Trench Technical Rescuer at the Operations Level	1006-2021	ProBoard
30. Trench Technical Rescuer at the Technician Level	1006-2021	ProBoard
31. Vehicle Rescuer Common Passenger at the Awareness Level	1006-2021	ProBoard
32. Vehicle Rescuer Common Passenger at the Operations Level	1006-2021	ProBoard
33. Vehicle Rescuer Common Passenger at the Technician Level	1006-2021	ProBoard
34. Vehicle Rescuer Commercial Vehicle at the Awareness Level	1006-2021	ProBoard
35. Vehicle Rescuer Commercial Vehicle at the Operations Level	1006-2021	ProBoard
36. Vehicle Rescuer Commercial Vehicle at the Technician Level	1006-2021	ProBoard
37. Fire Company Officer 1	1021-2020	ProBoard
38. Fire Company Officer 2	1021-2020	ProBoard
39. Fire Company Officer 3	1021-2020	ProBoard
40. Fire Company Officer 4	1021-2020	ProBoard
41. Fire Inspector 1	1031-2014	ProBoard
42. Fire Inspector 2	1031-2014	ProBoard
43. Fire Inspector 3	1031-2014	ProBoard
44. Plans Examiner 1	1031-2014	ProBoard
45. Plans Examiner 2	1031-2014	ProBoard
46. Fire Investigator	1033-2022	ProBoard
47. Public Fire and Life Safety Educator 1	1035-2015	ProBoard
48. Public Fire and Life Safety Educator 2	1035-2015	ProBoard
49. Fire & Emergency Services Instructor 1	1041-2019	ProBoard
50. Fire & Emergency Services Instructor 2	1041-2019	ProBoard
48. Fire & Emergency Services Instructor 3	1041-2019	ProBoard
51. Live Fire Instructor	1041-2019	ProBoard
52. Live Fire Instructor in Charge	1041-2019	ProBoard
53. Public Safety Telecommunicator 1	1225-2022	ProBoard
54. Public Safety Telecommunicator 2	1225-2022	ProBoard
55. Fire Department Safety Officer - Incident Safety Officer	1521-2020	ProBoard
56. Fire Department Safety Officer - Health and Safety Officer	1521-2020	ProBoard

Bucks County Community College offers a large selection of nationally recognized ProBoard certifications. Many of these certifications can be presented on location at your convenience, or a regional training center. Course descriptions are available in the following pages. If you have any questions contact your local Field Director to schedule certification classes or challenges.



### ***Airport Firefighter (ARFF) – NFPA 1003***

**FSC:** 0797

**Hours:** 40.0 (*Lecture: 30.0hrs / Lab: 10.0hrs*)

**Prerequisites:** Age 18 and up, IFSAC/Pro Board Fire Fighter II, Airport Rescue Fire Fighter Training

**Gear:** TOG, SCBA

**Text Book:** IFSTA, Aircraft Rescue and Fire Fighting, 6<sup>th</sup> Edition

**Description:** This course provides the instruction that will contribute to the student's knowledge of basic firefighting and rescue principles, airport features, aircraft identification, airfield markings, personal safety, and practical skills necessary for the student to effectively operate rescue and firefighting equipment.

### ***Confined Space Technical Rescuer at the Awareness, Operations & Technician Level***

**FSC:** 1047 (Training)

**Hours:** 24.0 (*Lecture: 12.0hrs / Lab: 12.0hrs*)

**FSC:** 1048 (Testing)

**Hours:** 8.0

**Prerequisites:** Age 18 and up, Non-Expired CPR w/ AED, Non-Expired First Aid, IFSAC/Pro Board Hazardous Materials Awareness, NIMS 100 & 700, IFSAC/Pro Board Rope Technical Rescuer for the Awareness & Operations Level, Confined Space Rescue Training.

**Gear:** Helmet with chin strap, clean leather gloves, eye protection, work or hiking boots, knee pads if possible, outdoor work clothing or coveralls appropriate for weather conditions, and SCBA. TURNOUT GEAR IS NOT ACCEPTABLE.

**Text Book:**

**Description:** This program is designed to enhance the student's ability to perform critical skill sets in the field of technical rescue for confined space rescue. During this course, students will review technical rescue theories, techniques, and challenges to accurately and safely execute the skill sets required for professional certification. Topics include: scene management, mechanical advantage systems, rope management, anchor systems, rescue knots, size-up considerations, hazard identification and control, permit & non-permit required confined space areas, OSHA and NFPA applicable standards and laws, and patient care. This course is designed for the experienced rescuer with a strong working knowledge of technical rescue in accordance with NFPA 1006.



### ***Driver Operator - Aerial Device – NFPA 1002***

**FSC:** 1024 (Testing & Training) **Hours:** 48.0 (*Lecture: 26.0hrs / Lab: 22.0hrs*)

**Prerequisites:** Age 18 and up, Current Motor Vehicle License, Fire Fighter 1 – NFPA 1001

**Gear:** TOG

**Text Book:** IFSTA, Pumping & Aerial Apparatus Driver/Operator Handbook, 3<sup>rd</sup> Edition

**Description:** Through classroom sessions and practical fieldwork, this course will provide the student with the knowledge and skills required for driver operator's aerial in accordance with NFPA 1002. This course will take the new driver/operator through the basic components and operational procedures to the advanced levels of apparatus preventive maintenance considerations and strategy and tactics involving aerial device operations. This course is designed for the experienced firefighter who is expected to drive and operate aerial devices.

### ***Driver Operator – Aerial Device Certification Challenge***

**FSC:** 0788 **Hours:** 19.5 (*Lecture: 3.50hrs / Lab: 16.0hrs*)

**Prerequisites:** Age 18 and up, Current Motor Vehicle License, Fire Fighter 1 – NFPA 1001, Aerial Apparatus Practices (AELA), Aerial Apparatus Practices Extended (AELX), Apparatus Preventative Maintenance, Emergency Vehicle Driver Training

**\*\*\*Contact your local Field Director for more information on challenge testing\*\*\***

### ***Driver Operator – Aircraft Rescue & Firefighting Apparatus – NFPA 1002***

**FSC:** 0825 **Hours:** 40.0 (*Lecture: 20.0hrs / Lab: 20.0hrs*)

**Prerequisites:** Age 18 and up, Current Motor Vehicle License, Fire Fighter 2, Airport FF

**Gear:** TOG

**Text Book:** IFSTA, Aircraft Rescue and Fire Fighting, 6<sup>th</sup> Edition

**Description:** This program is designed to train the student to the NFPA 1002 Standard for Driver/Operators for ARFF Vehicles. In this program the student will learn ARFF Vehicle placement, Airport Terminology, Basic Airfield Safety, pump operations, safe and defensive driving skills and the legal obligations of being a driver/operator. At the completion of this program the student will receive certification if they successfully pass both a written and skills-based testing.



***Driver Operator – Mobile Water Supply – NFPA 1002***

**FSC:** 0898

**Hours:** 40.0 (*Lecture: 20.0hrs / Lab: 20.0hrs*)

**Prerequisites:** Age 18 and up, Current Motor Vehicle License

**Gear:** TOG

**Text Book:** IFSTA, Pumping Apparatus Driver/Operator Handbook, <sup>nd</sup> Edition

**Description:** This course provides the basic foundation for safe operation of a mobile water supply apparatus through examination of hydraulics, folding tank operations, dumping operations, pumping operations, emergency vehicle operation, inspection procedures, and driver evaluation. Topics of discussion will include placement, maneuvering, deployment of apparatus, dump valve operation, pre and post inspection techniques, drafting, pumping, and maintenance. Successful completion of this program is dependent upon practical skills demonstration.

***Driver Operator – Mobile Water Supply Challenge – NFPA 1002***

**FSC:** 0524

**Hours:** 19.5 (*Lecture: 3.5hrs / Lab: 16.0hrs*)

**Prerequisites:** Age 18 and up, Current Motor Vehicle License, Apparatus Preventative Maintenance, Emergency Vehicle Driver Training, Tanker Water Supply or Mobile Water Supply.

**\*\*\*Contact your local Field Director for more information on challenge testing\*\*\***

***Driver Operator – Pumper – NFPA 1002***

**FSC:** 0275 (Training)

**Hours:** 56.0 (*Lecture: 26.0hrs / Lab: 30.0hrs*)

\*You Will Need to Complete the 19.5 Hours of Testing Also\*

**Prerequisites:** Age 18 and up, Current Motor Vehicle License.

**Gear:** TOG

**Text Book:** IFSTA, Pumping & Aerial Apparatus Driver/Operator Handbook, 3<sup>rd</sup> Edition

**Description:** Through classroom sessions and practical fieldwork, this course will provide the student with the knowledge and skills required for driver operators in accordance with NFPA 1002. This course will take the new driver/operator through the basic pump components and operational procedures to the advanced levels of apparatus preventive maintenance considerations and application of multiple water streams, master stream appliances and friction loss calculations. This course is designed for the experienced firefighter who is expected to drive and operate first line attack and supply engines.

***Driver Operator – Pumper Certification Challenge – NFPA 1002***

**FSC:** 0787

**Hours:** 19.5 (*Lecture: 3.5hrs / Lab: 16.0hrs*)

**Prerequisites:** Age 18 and up, Current Motor Vehicle License, Apparatus Preventative Maintenance, Emergency Vehicle Driver Training, Pump Operations 1 & 2.

**\*\*\*Contact your local Field Director for more information on challenge testing\*\*\***



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***Driver Operator – Tiller – NFPA 1002***

**FSC:** 1045

**Hours:** 48 (*Lecture: 26.0hrs / Lab: 22.0hrs*)

**Prerequisites:** Age 18 and up, Current Motor Vehicle License, Fire Fighter 1, DO Aerial Certification

**Gear:** TOG

**Text Book:** IFSTA, Pumping & Aerial Apparatus Driver/Operator Handbook, 3<sup>rd</sup> Edition

**Description:** Through classroom sessions and practical fieldwork, this course will provide the student with the knowledge and skills required for driver operators tiller in accordance with NFPA 1002. This course will take the new driver/operator through the basic components and operational procedures to the advanced levels of apparatus preventive maintenance considerations and strategy and tactics involving tiller aerial device operations. This course is designed for the experienced firefighter who is expected to drive and operate tiller aerial devices.

***Driver Operator – Tiller Certification Challenge – NFPA 1002***

**FSC:** 1046

**Hours:** 16.0 (*Lecture: 0hrs / Lab: 16.0hrs*)

**Prerequisites:** Age 18 and up, Current Motor Vehicle License, Fire Fighter 1 – NFPA 1001, Apparatus Preventative Maintenance, Emergency Vehicle Driver Training, Driver Operator Aerial Certification, Tiller Operations Training

**\*\*\*Contact your local Field Director for more information on challenge testing\*\*\***

***Fire Company Officer I – NFPA 1021***

**FSC:** 0645

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Fire Fighter 2, Fire Service Instructor 1

**Gear:** Laptop Computer Recommended

**Text Book:** IFSTA, Fire and Emergency Services Company Officer, 6<sup>th</sup> Edition

**Description:** This course will provide the student with a basic knowledge of management principles in a fire/rescue organization. Topics of discussion will include management style, communication modes, leadership, organizational structure, pre-planning, health and safety, and legal aspects for a fire officer. Successful completion of the program requires proficiency demonstration in written practical skills and a multiple-choice examination.





### ***Fire Company Officer II – NFPA 1021***

**FSC:** 0646

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Fire Company Officer I

**Gear:** Laptop Computer Recommended

**Text Book:** IFSTA, Fire and Emergency Services Company Officer, 6<sup>th</sup> Edition

**Description:** This course continues to reinforce the job performance requirements of Fire Company Officer I program, while examining critical issues in leadership, human resources, instructing, community interaction, and finances. Topics will include basic investigation techniques, operational plans, and communicating in the written medium. Successful completion of the program requires proficiency demonstration in written practical skills and a multiple-choice examination.

### ***Fire Company Officer III – NFPA 1021***

**FSC:** 0647

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Fire Company Officer II

**Gear:** Laptop Computer Recommended

**Text Book:** IFSTA, Chief Officer, 4<sup>th</sup> Edition

**Description:** This course continues to reinforce the job performance requirements of Fire Company Officer II; however, begins the progression to an administrative level officer. Critical elements that will be presented include hiring, promotions, injury prevention, recordkeeping, budget administration, and planning. All skill elements are of the written medium and expected to be produced at a college level. Successful completion of the program requires proficiency demonstration in written practical skills and a multiple-choice examination.

### ***Fire Company Officer IV – NFPA 1021***

**FSC:** 0444

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Fire Company Officer III

**Gear:** Laptop Computer Recommended

**Text Book:** IFSTA, Chief Officer, 4<sup>th</sup> Edition

**Description:** This course is the highest currently attainable in the officer series and continues the progression of an administrative level officer. Critical elements examined in this program focus on personnel development, long range planning, disaster planning, incentive programs, grievance, employee assistance, and risk management. All skill elements are of the written medium and expected to be produced at a college level. Successful completion of the program requires proficiency demonstration in written practical skills and a multiple-choice examination.



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***Fire Department Safety Officer – Health & Safety Officer – NFPA 1521***

**FSC:** 0844

**Hours:** 24.0 (*Lecture: 20.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up

**Gear:** Laptop Computer Recommended

**Text Book:** IFSTA, Fire and Emergency Services Safety Officer 2<sup>nd</sup> Edition

**Description:** The role of the Health and Safety Officer in policy and procedure issues that affect the health and safety of emergency responders. Risk analysis, wellness, program management, and other occupational safety issues are the main emphasis of the course. The target audience is all individuals, and especially management-level personnel who have department-level health and safety responsibilities (such as planning and implementation) and organizational representatives who have active involvement in such activities. This program addresses the job performance requirements identified in NFPA 1521.

***Fire Department Safety Officer – Incident Safety Officer – NFPA 1521***

**FSC:** 0887

**Hours:** 32.0 (*Lecture: 32.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Fire Company Officer I

**Gear:** Laptop Computer Recommended

**Text Book:** IFSTA, Fire and Emergency Services Safety Officer 2<sup>nd</sup> Edition

**Description:** The Safety Officer's responsibilities fall into two clear cut categories: those associated with responding at the incident scene, and those associated with managing the day to day affairs of the department. The Incident Safety Officer (ISO) course is focused on the incident and the role the Safety Officer plays as part of the Command Staff. The target audience is Company Officers (CO) and Lead Firefighters who are experienced in firefighter safety issues and are familiar with an Incident Command System, hazardous materials management, suppression strategies and tactics, and technical rescue related emergency operations. The program provides the student with the decision-making process and skills required to recognize unsafe acts and conditions and take appropriate corrective actions. This program addresses the JPRs identified in NFPA 1521.



### ***Fire Fighter I Challenge – NFPA 1001***

**FSC:** 0479 (Skill Testing 14 Stations Challenge)     **Hours:** 8.0 (*Lecture: 0hrs / Lab: 8hrs*)

**FSC:** 0484 (Skill Testing 7 Skills, End of Essentials) **Hours:** 8.0 (*Lecture: 0hrs / Lab: 8hrs*)

**FSC:** 0483 (Written Testing)     **Hours:** 4.0

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF) w/ live fire or without live fire & Structure Burn Session, or Bucks Basic Fire Academy & Structure Burn Session, Current First Aid & CPR (EMS Provider Level), Hazardous Materials Operations Certification (ProBoard or IFSAC), NIMS 100 & 700

**Gear:** TOG, SCBA

**Text Book:** IFSTA Essentials of Firefighting 7<sup>th</sup> Edition

**Description:** This course will evaluate students on knowledge and the psychomotor skills and the ability to function safely and effectively as a Firefighter I. After successful completion of these skills and a written test the student will receive certification in accordance with NFPA 1001 Firefighter I.

### ***Fire Fighter II Challenge – NFPA 1001***

**FSC:** 0482 (Skill Testing)     **Hours:** 8.0 (*Lecture: 0hrs / Lab: 8hrs*)

**FSC:** 0480 (Written Testing)     **Hours:** 4.0

**Prerequisites:** Age 18 and up, Current First Aid & CPR (EMS Provider Level), Hazardous Materials Operations Certification (ProBoard or IFSAC), Firefighter 1 Certification, NIMS 200 or Higher, Vehicle Rescue Training, Training & Experience in the following: Flammable Liquids & Gases, Technical Rope Rescue, Engine & Truck Company Operations.

**Gear:** TOG, SCBA

**Text Book:** IFSTA Essentials of Firefighting 7<sup>th</sup> Edition

**Description:** This course will evaluate students on knowledge and psychomotor skills required and the ability to function safely and effectively as a firefighter II. After Successful completion, of this and a written test the student will receive certification in accordance with NFPA 1001 Firefighter II.

**\*\*\* Bucks County Community College also offers complete training for Firefighter I & II certifications through the Bucks Basic & Advanced Fire Academy programs as well as the EL 22 classes. Please contact your local Field Director if interested in scheduling one of these programs as they contain long hours in lecture and hands on skills. \*\*\***



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***Fire Inspector I – NFPA 1031***

**FSC:** 0617

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Awareness Certification

**Gear:** Laptop Computer Recommended

**Textbook:** IFSTA Fire Inspection & Code Enforcement 8<sup>th</sup> Edition, and access to NFPA or International Fire Codes.

**Description:** This is a basic course which involves research, interpretation of codes, implementing policy, testifying at legal proceedings, and creating forms and job aids, according to the NFPA job performance requirements for Fire Inspector I. The course of instruction includes code enforcement inspections and analyses of new and existing structures and properties for construction, occupancy, fire protection, exposures, field verification of shop drawings, plans, and construction documents to ensure that they meet the intent of applicable codes and standards for fire and life safety.

***Fire Inspector II – NFPA 1031***

**FSC:** 0662

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Fire Inspector I Certification

**Gear:** Laptop Computer Recommended

**Textbook:** IFSTA Fire Inspection & Code Enforcement 8<sup>th</sup> Edition, and access to NFPA or International Fire Codes.

**Description:** This is an advanced level course for experienced fire fighters or inspectors. Topics covered in this course include: Report Writing, Forms Development, Policy Planning, Legislation Planning, Building construction, decorative materials and furnishings, fire drills, inspection procedures, code enforcement, fire alarm systems, and communications. Successful completion of this program requires practical skill demonstration and a written, multiple choice examination. The Fire Inspector II course requires students have a high degree of motivation, as significant work is required outside of the classroom.

***Fire Inspector III – NFPA 1031***

**FSC:** 0433

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Fire Inspector II Certification

**Gear:** Laptop Computer Recommended

**Textbook:** Same as Inspector I & II

**Description:** This is an advanced course and the final course in a series which involves research, interpretation of codes, implementing policy, testifying at legal proceedings, and creating forms and job aids, according to the NFPA job performance requirements for Fire Inspector III. This duty involves the recommendation, creation, and evaluation of policies and procedures for fire safety inspections and code enforcement activities, according to the below-listed job performance requirements. The course of instruction includes code enforcement inspections and analyses of new and existing structures and properties for construction, occupancy, fire protection, exposures, field verification of shop drawings, plans, and construction documents to ensure that they meet the intent of applicable codes and standards for fire and life safety.



### ***Fire Investigator – NFPA 1033***

**FSC:** 0793

**Hours:** 80.0 (*Lecture: 60.0hrs / Lab: 20.0hrs*)

**Prerequisites:** Age 18 and up, \*\*\* See Note Below\*\*\*

**Gear:** Work clothing, Laptop Computer Recommended, Camera

**Textbook:** IFSTA Fire Investigator 2<sup>nd</sup> Edition, Kirk's Fire Investigator Handbook 8<sup>th</sup> Edition, NFPA 921 – Guide for Fire & Explosion Investigation

**Description:** This course is designed for fire investigators, police officers, and company-level officers with a desire to learn more about determining the origin and cause of fire. Students should be prepared for an intense week of training and practical skills application. Topics covered include: determining the point of origin, burn patterns, evidence collection and analysis, interviewing techniques, and court procedure and testifying.

\*\*\* This program has extensive prerequisite requirements and material needs. Contact your local Field Director for interest in this certification\*\*\*

### ***Fire & Emergency Services Instructor I – NFPA 1041***

**FSC:** 0656

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up

**Gear:** Laptop Computer Recommended

**Textbook:** IFSTA Fire & Emergency Services Instructor 9<sup>th</sup> Edition

**Description:** This course establishes the foundation for delivery of training programs within the emergency services spectrum. Emphasis is placed on professional delivery, organization, and methodologies of teaching. Students will develop lesson plans, curriculum presentations, and evaluation tools. Successful completion of the program is dependent upon practical skill demonstration, including a presentation, and a multiple-choice written examination.

### ***Fire & Emergency Services Instructor II – NFPA 1041***

**FSC:** 0188

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Fire Service Instructor I Certification

**Gear:** Laptop Computer Recommended

**Textbook:** IFSTA Fire & Emergency Services Instructor 9<sup>th</sup> Edition

**Description:** This course establishes the foundation for delivery of training programs within the emergency services spectrum. Emphasis is placed on professional delivery, organization, and methodologies of teaching. Students will develop lesson plans, curriculum presentations, and evaluation tools. Successful completion of the program is dependent upon practical skill demonstration, including a presentation, and a multiple-choice written examination.



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***Fire & Emergency Services Instructor III – NFPA 1041***

**FSC:** 0655

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Fire Service Instructor II

**Gear:** Laptop Computer Recommended

**Textbook:** IFSTA Fire & Emergency Services Instructor 9<sup>th</sup> Edition

**Description:** Through classroom sessions, research assignments, and practical fieldwork, this course will provide students an understanding of the skills and knowledge required to function effectively as an administrative level fire instructor. The course will challenge students to develop and implement curricula to meet training demands, trends, and applicable standards. After successful completion of this program, the student will receive professional certification recognition in accordance with NFPA 1041 Fire Service Instructor III. Subjects to be covered include: leadership, human resources, administration, program and curriculum development, instructional and program management strategies, and needs-analysis development and assessment strategies.

***Live Fire Instructor & In Charge – NFPA 1041***

**FSC:** 0897

**Hours:** 24.0 (*Lecture: 16.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Firefighter II Certification, Fire Instructor I Certification, Fire Instructor II Certification (for Instructor In Charge)

**Gear:** Turn Out Gear & SCBA

**Textbook:** Jones & Bartlett Live Fire Training Principles & Practices 2<sup>nd</sup> Edition & NFPA 1403

**Description:** This program is designed to introduce and expand the Supervisor/Instructor-in-Charge's knowledge of the NFPA 1403 standard, as well as, the Authority Having Jurisdiction (AHJ) Live Fire Training Policy. During this program the standard will be explained in full and discussed to understand pertinent compliance issues. The AHJ Policy will also be compared and discussed to identify compliance issues as they relate to the Live Fire Training Sessions.



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***Hazardous Materials Awareness – NFPA 470***

**FSC:** 2114 (Training)

**Hours:** 6.0 (*Lecture: 6.0hrs / Lab: 0.0hrs*)

**FSC:** 0917 (Testing)

**Hours:** 2.0 (*Lecture: 2.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 14 and up

**Gear:** None

**Textbook:** IFSTA Hazardous Materials for First Responders 6<sup>th</sup> Edition

**Description:** This program designed to test the student's skills through a written exam with the use of the DOT Emergency Response Guide so that they will receive IFSAC/Pro Board certification upon successful completion of the minimum requirements. All testing is based on current NFPA 470 Hazardous Materials Awareness. Students should possess prerequisite knowledge of hazardous materials obtained through previous training and real-life experience.

***Hazardous Materials Incident Commander – NFPA 470***

**FSC:** 0795

**Hours:** 40.0 (*Lecture: 24.0hrs / Lab: 16.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Operations CORE Certification

**Gear:** Laptop Computer Recommended

**Textbook:** Jones & Bartlett Hazardous Materials: Managing the Incident 4<sup>th</sup> Edition

**Description:** This course establishes the foundation of commanding offensive operations at the scene of a hazardous materials incident. Students will examine critical issues including regulatory controls, equipment selection, risk management, site control, incident management, and documentation. Topics of discussion will include, Incident Command System, decision making, planning, response strategies, Chlorine Kit use, decontamination, atmospheric monitoring. Successful completion of this program is dependent upon practical skills demonstration and a written, multiple-choice examination.





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***Hazardous Materials Operations Level – NFPA 470***

**FSC:** 0978 (Written Test)

**Hours:** 4.0

**FSC:** 0103 (Practical Testing)

**Hours:** 8.0

**FSC:** 2472 (Training)

**Hours:** 32.0 (*Lecture: 20.0hrs / Lab: 12.0hrs*)

**Prerequisites:** Age 16 and up, Hazardous Materials Awareness Certification

**Gear:** TOG, SCBA

**Textbook:** IFSTA Hazardous Materials for First Responders 6<sup>th</sup> Edition

**Description:** Practical evaluations are intended to measure the manipulative skills of the Hazardous Materials Operational level and will follow guidelines set forth in accordance with the policies and procedures of the Bucks County Community College. The agency will test 100% of the practical objectives of the Hazardous Materials Operational level skills. A score of 100% shall constitute a passing grade for the candidate. All practical evaluations will be in accordance with NFPA 470. **Certifications will be issued for the following disciplines; Hazardous Materials Core Operations, Personal Protective Equipment (PPE), and Product Control.**

***Hazardous Materials Operations – Mission Specific Disciplines – NFPA 470***

Bucks County Community College offers certification in the following Hazardous Materials Operations Disciplines. Contact your local Field Director for information regarding these certifications.

***Hazardous Materials Operations MSC – Detection, Monitoring, and Sampling***

**FSC:** 0493

**Hours:** 4.0 (*Lecture: 2.0hrs / Lab: 2.0hrs*)

***Hazardous Materials Operations MSC – Mass Decontamination***

**FSC:** 1074

**Hours:** 8.0 (*Lecture: 4.0hrs / Lab: 4.0hrs*)

***Hazardous Materials Operations MSC – Personal Protective Equipment***

**FSC:** 1021

**Hours:** 4.0 (*Lecture: 2.0hrs / Lab: 2.0hrs*)

***Hazardous Materials Operations MSC – Product Control***

**FSC:** 1022

**Hours:** 4.0 (*Lecture: 2.0hrs / Lab: 2.0hrs*)

***Hazardous Materials Operations MSC – Technical Decontamination***

**FSC:** 1077

**Hours:** 8.0 (*Lecture: 2.0hrs / Lab: 6.0hrs*)

**\*Contact your local Field Director for training and requirements for mission specific certifications\***



### ***Hazardous Materials Safety Officer – NFPA 470***

**FSC:** 0960

**Hours:** 24.0 (*Lecture: 24.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Technician Certification

**Gear:** Laptop Computer Recommended

**Textbook:** Jones & Bartlett Hazardous Materials: Managing the Incident & Field Operations  
Guidbook 4<sup>th</sup> Editions

**Description:** Hazardous Materials/WMD incidents present specific and sometimes less obvious challenges to emergency response personnel. This program provides the Hazmat Technician with additional insight to these challenges and offers risk management strategies for maintaining safe operational practices throughout the various incident phases. Assessment, analysis, and planning are critical focus areas for this course. After successful completion of this program, the student will test for professional certification in accordance with NFPA 470 2022 Edition.

### ***Hazardous Materials Technician – NFPA 470***

**FSC:** 0485 (Testing)

**Hours:** 19.5 (*Lecture: 3.5hrs / Lab: 16.0hrs*)

**FSC :** 0772 (Training)

**Hours:** 80 (*Lecture: 48.0hrs / Lab: 32.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Operations Certification

**Gear:** Chemical Protective Clothing, Respiratory Protection, Helmet (Non-Fire) with Chin Strap

**Textbook:** IFSTA Hazardous Materials Technician 3<sup>rd</sup> Edition Jones & Bartlett Field Operations  
Guidbook 2<sup>nd</sup> Edition

**Description:** This course will evaluate the proficiency of the candidate performing job performance requirements as identified in NFPA 470 Hazardous Materials Technician Level. The student will be tested on cognitive and manipulative skills related to technician level responses. In addition, the candidates will be evaluated on their ability to effectively function safely and effectively as a Hazmat Technician. After successful completion, the student will receive certification at the technician level in accordance with 29 CFR 1910.120 and NFPA 470. Subjects to be covered include site safety procedures, personal protective equipment, containment techniques, decontamination procedures, incident management system, and integrated exercises.

### ***Plans Examiner I & II – NFPA 1031***

**FSC:** 0601

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, (Fire Inspector I Certification Recommended)

**Gear:** Laptop Computer Recommended

**Textbook:** IFSTA Plans Examiner for Fire & Emergency Services 2<sup>nd</sup> Edition

**Description:** This course is designed to provide an overview of the Plans Review process for fire inspectors or plans examiners. The topics of discussion include: plans review; preparation of correspondence and plan review reports; communication with fire inspectors and emergency response personnel; handling of complaints; maintenance of records; participation in legal proceedings; identification of when additional expertise is required; local jurisdiction proceedings; and alternative methods.



### ***Public Fire and Life Safety Educator 1& 2 – NFPA 1035***

**FSC:** 0794

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, General Knowledge of Fire Safety

**Gear:** Laptop Computer Recommended

**Textbook:** IFSTA Fire & Life Safety Educator 3<sup>rd</sup> Edition

**Description:** This course is designed to provide the public educator with the knowledge and skills needed to successfully perform as a fire and life safety educator as addressed in NFPA 1035. For those who practice the multidiscipline profession of fire and life safety educator (including uniformed fire service personnel and other professionals), topics include fire behavior, community assessment, injury prevention and juvenile fire-setting. The student will also develop presentation skills and learn how to formulate public education programs. This course meets the national certification criteria for Fire and Life Safety Educator, Level I and Level II.

### ***Public Safety Telecommunicator 1 & 2 – NFPA 1225***

**FSC:** 0878

**Hours:** 40.0 (*Lecture: 40.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, High School GED, NIMS 100 & 700

**Gear:** None

**Textbook:** IFSTA Telecommunicator 1<sup>st</sup> Edition

**Description:** This course provides the student with the basic information necessary to acquire information from citizens and other entities requesting public safety services or assistance and to acquire information from multiple sources requiring public safety services or assistance. These sources can include other telecommunicators, field units, or electronic devices. The program is based on the National Fire Protection Association professional qualifications established in NFPA 1225.

### ***Rope Technical Rescuer at the Awareness & Operations Level – NFPA 1006***

**FSC:** 1431 (Training)

**Hours:** 32.0 (*Lecture: 16.0hrs / Lab: 16.0hrs*)

**FSC:** 1433 (Testing)

**Hours:** 8.0

**Prerequisites:** Age 16 and up, Non-Expired CPR w/ AED, Non-Expired First Aid, Hazardous Materials Awareness Certification, NIMS 100 & 700

**Gear:** Helmet with Chin Strap, Work Clothes, Work Shoes, Leather Gloves.

**Text Book:** Jones & Bartlett Rope Rescue Techniques Principles & Practices 5<sup>th</sup> Edition

**Description:** This program designed to evaluate the student's skills in cognitive and psychomotor exercises so that they will receive professional certification upon completion of the program, if they successfully meet the minimum requirements of testing. All testing is based on current NFPA 1006 Standard for Rescue Technician Professional Qualifications. Students should have prerequisite knowledge of technical rescue skills obtained through previous training and real-life experience. Prerequisite requirements include professional certification (IFSAC/Pro Board) Hazardous Materials Awareness, non-expired First Aid or higher-level emergency responder, non-expired CPR, and Rope Rescue Training meeting the NFPA 1006.



### ***Rope Technical Rescuer at the Technician Level – NFPA 1006***

**FSC:** 1434 (Training)

**Hours:** 24.0 (*Lecture: 4.0hrs / Lab: 20.0hrs*)

**FSC:** 1435 (Testing)

**Hours:** 8.0

**Prerequisites:** Age 18 and up, Rope Technical Rescuer Awareness & Operations Level Certification.

**Gear:** Helmet with Chin Strap, Work Clothes, Work Shoes, Leather Gloves.

**Text Book:** Jones & Bartlett Rope Rescue Techniques Principles & Practices 5<sup>th</sup> Edition

**Description:** This program is designed to enhance the student's ability to perform critical skill sets to meet the intent of NFPA 1006 and 1670 Rope Rescue Technician in the field of technical rescue. During this course, students will review rope rescue systems, application theories, and high angle challenges to accurately and safely execute the skill sets required for professional certification. Topics include: rescue incident management, technical vs. non-technical rescue considerations, rescue strategies and tactics, resource management, patient access and removal strategies and tactics, hazard identification and control, specialized rescue equipment identification and application, patient removal techniques and selection criteria, basic patient care, packaging, and removal, highline construction and operation, and applicable OSHA and NFPA laws and standards. This course is designed for the experienced rescuer with a strong working knowledge of technical rescue in accordance with NFPA 1006 and 1670.

### ***Rope Technical Rescuer at the Awareness, Operations & Technician Level***

**FSC:** 1430 (Training)

**Hours:** 56.0 (*Lecture: 16.0hrs / Lab: 40.0hrs*)

**FSC:** 1432 (Testing)

**Hours:** 16.0

### ***Structural Collapse Technical Rescuer at the Awareness & Operations Level***

**FSC:** 1442 (Training)

**Hours:** 24.0 (*Lecture: 12.0hrs / Lab: 12.0hrs*)

**FSC:** 1443 (Testing)

**Hours:** 8.0

**Prerequisites:** Age 18 and up, Non-Expired CPR w/ AED, Non-Expired First Aid, Hazardous Materials Awareness Certification, Rope Technical Rescuer Awareness & Operations Level Certification, NIMS 100 & 700

**Gear:** Helmet with Chin Strap, Work Clothes, Work Shoes, Leather Gloves, Eye Protection.

**Text Book:** FEMA US & R Response System, Structural Collapse Technician

**Description:** This program is designed to enhance the student's ability to perform critical skill sets to meet the intent of NFPA 1006. During this course, students will review collapse extrication theories, shoring techniques.

Topics include: rescue incident management, collapse types and building construction considerations for light frame collapsed structures, extrication strategies and tactics, resource management, stabilization and shoring systems for light frame construction collapse operations, atmospheric monitoring and ventilation methods, search & rescue techniques, collapse equipment identification and application for light frame construction, patient triage, patient removal methods and selection criteria, basic patient care, packaging, and removal, basic and advanced shoring techniques, and applicable OSHA and NFPA laws and standards.



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***Structural Collapse Technical Rescuer at the Technician Level – NFPA 1006***

**FSC:** 1444 (Training)

**Hours:** 40.0 (*Lecture: 16.0hrs / Lab: 24.0hrs*)

**FSC:** 1445 (Testing)

**Hours:** 8.0

**Prerequisites:** Age 18 and up, Hazardous Materials Awareness Certification, Structural Collapse Technical Rescuer Awareness & Operations Level Certification.

**Gear:** Helmet with Chin Strap, Work Clothes, Work Shoes, Leather Gloves, Eye Protection.

**Text Book:** FEMA US & R Response System, Structural Collapse Technician

**Description:** This program is designed to enhance the student's ability to perform critical skill sets to meet the intent of NFPA 1006. During this course, students will review collapse extrication theories for heavy frame construction, shoring techniques for heavy framed construction, and challenges to accurately and safely execute the skill sets required for professional certification. Topics include: rescue incident management, collapse types and building construction considerations for heavy construction type collapsed structures, extrication strategies and tactics for heavy framed construction collapse operations, resource management, advanced stabilization and shoring systems, hazard identification and control, search & rescue techniques used during heavy framed construction collapses, and advanced shoring techniques, and applicable OSHA and NFPA laws and standards. This course is designed for the experienced rescuer with a strong working knowledge of technical rescue in accordance with NFPA 1006 and 2500.

***Structural Collapse Technical Rescuer at the Awareness, Operations & Technician Level***

**FSC:** 1440 (Training)

**Hours:** 64.0 (*Lecture: 32.0hrs / Lab: 32.0hrs*)

**FSC:** 1441 (Testing)

**Hours:** 16.0

**\*\*\* This program has extensive material needs. Contact your local Field Director for interest in this certification\*\*\***



***Trench Technical Rescuer at the Awareness & Operations Level – NFPA 1006***

**FSC:** 1452 (Training)

**Hours:** 24.0 (*Lecture: 10.0hrs / Lab: 14.0hrs*)

**FSC:** 1453 (Testing)

**Hours:** 8.0

**Prerequisites:** Age 18 and up, Non-Expired CPR w/ AED, Non-Expired First Aid, Hazardous Materials Awareness Certification, Rope Technical Rescuer Awareness & Operations Level Certification, NIMS 100 & 700

**Gear:** Helmet with Chin Strap, Work Clothes, Work Shoes, Leather Gloves, Eye Protection.

**Text Book:** Jones & Bartlett Trench Rescue Awareness, Operations, Technician 4<sup>th</sup> Edition

**Description:** This program is designed to enhance the student's ability to perform critical skill sets to meet the intent of NFPA 1006. During this course, students will review trench extrication theories, basic shoring techniques, and challenges to accurately and safely execute the skill sets required for professional certification. Topics include: rescue incident management, trench configurations and soil types, extrication strategies and tactics for inline trench rescue operations, resource management, stabilization and shoring systems for inline trench rescue operations, hazard identification and control, shoring panel construction, technical rescue equipment identification and application, patient removal methods and selection criteria, basic patient care, packaging, and removal, basic and advanced shoring techniques, and applicable OSHA and NFPA laws and standards. This course is designed for the experienced rescuer with a strong working knowledge of technical rescue in accordance with NFPA 1006 and 1670.

***Trench Technical Rescuer at the Technician Level – NFPA 1006***

**FSC:** 1454 (Training)

**Hours:** 24.0 (*Lecture: 8.0hrs / Lab: 16.0hrs*)

**FSC:** 1455 (Testing)

**Hours:** 8.0

**Prerequisites:** Age 18 and up, Trench Technical Rescuer Awareness & Operations Level Certification.

**Gear:** Helmet with Chin Strap, Work Clothes, Work Shoes, Leather Gloves, Eye Protection.

**Text Book:** Jones & Bartlett Trench Rescue Awareness, Operations, Technician 4<sup>th</sup> Edition

**Description:** This program is designed to enhance the student's ability to perform critical skill sets to meet the intent of NFPA 1006. During this course, students will review trench extrication theories involving and intersecting trench, shoring techniques for intersecting trenches, and challenges to accurately and safely execute the skill sets required for professional certification. Topics include: rescue incident management, trench configuration and soil types, extrication strategies and tactics for intersecting trenches, resource management, stabilization and shoring systems for intersecting trenches, and advanced shoring techniques, and applicable OSHA and NFPA laws and standards. This course is designed for the experienced rescuer with a strong working knowledge of technical rescue in accordance with NFPA 1006 and 1670.





***Trench Technical Rescuer at the Awareness, Operations & Technician Level***

**FSC:** 1450 (Training)

**Hours:** 40.0 (Lecture: 16.0hrs / Lab: 24.0hrs)

**FSC:** 1451 (Testing)

**Hours:** 8.0

***Vehicle Rescuer Common Passenger at the Awareness, Operations & Technician Level – NFPA 1006***

**FSC:** 1420 (Training)

**Hours:** 40.0 (Lecture: 16.0hrs / Lab: 24.0hrs)

**FSC:** 1421 (Testing)

**Hours:** 8.0

**Prerequisites:** Age 16 and up, Non-Expired CPR w/ AED, Non-Expired First Aid, Hazardous Materials Awareness Certification, NIMS 100 & 700

**Gear:** TOG, or Extrication Gear, Eye Protection.

**Text Book:** Jones & Bartlett Vehicle Rescue & Extrication Principles & Practices Revised 2<sup>nd</sup> Edition

**Description:** This program is designed to enhance the student's ability to perform critical skills sets in the field of technical rescue for incidents involving common passenger vehicles. During this course, students will review scene safety and size up strategies, apply the phases of extrication, vehicle extrication principles and theories, stabilization and extrication techniques, basic patient care and packaging techniques, and managing incident challenges to accurately and safely execute the skill sets required for safe and effective patient extrication. Topics include size-up, scene management, hazard identification and control, stabilization, gaining access, tool selection and operation, patient packaging and extrication, and termination in accordance with NFPA 1006 and 1670. This course is designed for students with a working knowledge of emergency response. This course is designed to prepare a candidate for professional certification testing (written and skills) in accordance with NFPA 1006 Common Passenger Vehicle Technical Rescuer Awareness, Operations, and Technician Levels.





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***Vehicle Rescuer Commercial Vehicle at the Awareness, Operations & Technician Level – NFPA 1006***

**FSC:** 1422 (Training)

**Hours:** 24.0 (*Lecture: 8.0hrs / Lab: 16.0hrs*)

**FSC:** 1423 (Testing)

**Hours:** 8.0

**Prerequisites:** Age 16 and up, Vehicle Rescuer Common Passenger Awareness, Operations, & Technician Level Certification

**Gear:** TOG, or Extrication Gear, Eye Protection.

**Text Book:** Jones & Bartlett Vehicle Rescue & Extrication Principles & Practices Revised 2<sup>nd</sup> Edition

**Description:** his program designed to evaluate the student's skills in cognitive and psychomotor exercises so that they will receive professional certification upon completion of the program, if they successfully meet the minimum requirements of testing. This examination measures the student's skills at the Heavy Vehicle Technical Rescuer Awareness, Operations, and Technician Level and will follow guidelines set forth in accordance with the policies and procedures of Bucks County Community College's Accreditation. Testing is based on current NFPA 1006 Standard, to the Heavy Vehicle Technical Rescuer Awareness, Operations, and Technician Level through the ProBoard.

**\*\*\*Any and all questions regarding scheduling of certification can be directed to your local Field Director. \*\*\***

**\*\*\* Any questions regarding certification, prerequisites and or requirements can be directed to the Certification Staff. \*\*\***



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***Directory of Local Level Courses in Alphabetical Order***

<b>FSC</b>	<b>Course Title</b>	<b>FSC</b>	<b>Course Title</b>
0635	Advanced Fire Police	0847	Clandestine Drug Labs: Operations Level
0437	Advanced Line Systems Rescue	0827	Clandestine Laboratory Awareness for First Responder
0315	Aerial Apparatus Practices	0461	Confined Space Entry
0317	Aerial Apparatus Practices Extended	1051	Confined Space Rescue Awareness & Operations
0439	Air Monitoring Equipment Familiarization	0314	Confined Space Rescue Refresher
0363	Air Monitoring Instrumentation	0353	Container & Vessel Identification
0797	Aircraft Rescue & Firefighting	0765	Decision Making for Initial Company Officer (DMICO)
0602	Alternative Energy Vehicles	0774	Decontamination Practices
0505	Apparatus Preventative Maintenance	0361	Decontamination Review
0735	Arson Awareness for Emergency Response Personnel	0186	Dynamics of Emergency Vehicle Response (EVRD)
0734	Arson Detection for the First Responder	0250	Education Methodology for Local Level Instructors (EMLL)
0388	Autism Awareness for the First Responder	0120	Electric Vehicle Safety for Emergency Responders
0525	Automatic Detection and Suppression Systems (AUTO)	0740	Electrical Emergencies (ELFS)
0604	Basic Fire Police (BFPO)	0595	Elevator Rescue Awareness
0724	Basic Rescue Task Force Concepts	0548	Elevator Rescue Emergencies
0341	Basic Rigging for Rope Rescue	0436	Emergency Boat & Rescue Operations (EBOR)
0930	Basic Water Rescue Refresher	0932	Emergency Response to Railroad Incidents
0296	Bloodborne Pathogens and Infectious Diseases Awareness	1040	Emergency Services Trailer Operations & Safety Program
0916	Bucks Advanced Fire Academy	0527	Emergency Services ATV / UTV Safety Program
0913	Bucks Basic Fire Academy	0235	Emergency Services Driver Training (EVDT)
0153	Building Construction Refresher	0170	Emergency Vehicle Operations Refresher
0707	Building Construction: Fire Resistive & Non-Combustible	0205	Engine Company Operations
0780	Building Construction: Wood Frame & Ordinary (BCP	0517	Essentials Refresher
0502	Carbon Monoxide Detector Response (CORE)	3462	Exterior Firefighter (ELEF)
0529	Chain Saw Safety	0531	Fire Attack in Sprinklered Properties
0364	Chlorine "A" and "B" Containment Kit Operation		
0360	Chlorine Emergencies Awareness		



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<b>FSC</b>	<b>Course Title</b>	<b>FSC</b>	<b>Course Title</b>
0633	Fire Behavior	0435	Ice Rescue & Emergency Response (PA Fish & Boat)(IRER)
0674	Fire Control Refresher	0882	ICS-100: Introduction to the Incident Command System
0800	Fire Dynamics: Fundamentals (FDF)	0477	ICS-200: ICS for Single Resources and Initial Action Incident
0801	Fire Dynamics: Strategy & Tactics	0509	ICS-300: ICS for Expanding Incident & Supervisors
0139	Firefighter I Skills Enhancement	0511	ICS-400: ICS for Command & General Staff for Complex Incidents
0207	Firefighter II Certification Prep	0514	ICS & Resource Management for the Fire Service
0199	Firefighter Safety Awareness	0185	Incident Command System Refresher
0202	Firefighter Survival (SURV)	0108	Incident Safety Officer (ISO)
3460	Fire Ground Support (ELFG)	0828	Initial Response: Residential Strategy & Tactics
0663	Fire Police Refresher	3469	Interior Firefighter (Live Fire Exercise) (ELIF)
0673	Fire Streams Refresher	3463	Interior Firefighter (No Live Fire)
0148	Flammable Gases Review	3459	Intro to the Fire Service (ELIS)
0725	Flammable Liquids Firefighting	0226	Introduction to Fire Officership
0162	Flammable Liquids Review	0695	Introduction to Rescue Saw Safety
0666	Foam Firefighting Review	0972	Introduction to Ropes, Knots & Rope Rescue Rigging
0700	Forcible Entry (TFE)	0183	Ladder Company Review
0104	Forcible Entry Refresher	0852	Legal Aspects for the First Responder
0147	Ground Ladder Refresher	1053	Lithium-Ion Battery Incidents
2114	Hazardous Materials Awareness	0313	Lockout / Tagout
1738	Hazardous Materials Awareness Level Annual Refresher (HMAR)	0497	Mass Decontamination
2472	Hazardous Materials Operations	0856	Natural Gas / Propane / Carbon Monoxide Seminar
1737	Hazardous Materials Operations Annual Refresher (HMOR24-A)	0321	New Aerial Apparatus Familiarization (NAEP)
1736	Hazardous Materials Operations Annual Refresher (HMOR24-B)	0881	NIMS IS-700: National Incident Management System Intro
1735	Hazardous Materials Operations Annual Refresher (HMOR24-C)	0487	NIMS IS-800: National Response Plan Introduction
1734	Hazardous Materials Operations Annual Refresher (HMOR24-D)	0832	Pre-Incident Planning
0772	Hazardous Materials Technician	0380	Preparation for Initial Company Operations (PICO)
0781	Hazardous Materials Technician Refresher		
0141	Health & Safety Officer		
0622	Heavy Truck Rescue		
1014	Heavy Vehicle Rescue Operations & Problem Solving		
0537	High Rise Firefighting (HIRI)		
0550	High Rise Packs & Stand Pipes		
0351	Highway Incident Scene Safety & Management		



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**FSC                      Course Title**

0868 PTSD Awareness  
 0420 Pump Operations I (PUOP)  
 0421 Pump Operations II (PUOA)  
 0921 Pump Operations Refresher  
 0106 Quint Concept, Strategy & Tactics  
 0806 Railcar Emergencies (RCM)  
 0270 Rapid Intervention Team (RITC)  
 0770 Rapid Intervention Team Advanced  
 0760 Rapid Intervention Team Basic  
 0761 Rapid Intervention Team Refresher  
 1010 Recruitment & Retention Seminar  
 0669 Rehabilitation for Firefighters in  
 Emergency Environments  
 1009 Residential Fire Sprinklers for Single  
 Family Dwellings  
 0623 Responding to Utility Emergencies:  
 Natural Gas  
 0618 Responding to Utility Emergencies:  
 Electrical  
 0993 Rope Rescue Awareness  
 1431 Rope Technical rescuer Awareness  
 & Operations  
 1434 Rope Rescuer Technician  
 0350 Rope / High Angle Adverse  
 Conditions  
 0342 Rope Rescue Rigging Practical  
 0346 Ropes & Knots  
 0349 Ropes & Rigging Refresher  
 0853 Rowhome / Townhome Firefighting  
 0625 Rural Fireground Water Movement  
 0276 Salvage & Overhaul Refresher  
 0842 SCBA Emergencies & Firefighter  
 Self Rescue  
 0823 SCBA Refresher  
 0850 Scene Preservation for the First  
 Responder  
 0589 Search & Rescue Refresher  
 0381 Solar Panel Awareness for the Fire  
 Service  
 0107 Spill & Leak Control  
 0538 Sprinklers & Stand Pipes  
 0175 Strategy & Tactics Command

**FSC                      Course Title**

0975 Strategy & Tactics for Initial  
 Company Officer (STICO)  
 0600 Structure Burn Session (SBS)  
 0325 Structural Fire Rescue (SFR)  
 0312 Structural Suppression Refresher  
 0415 Tanker Water Supply (TAWs)  
 1075 Technical Decontamination  
 0577 Technical Rescue Awareness  
 0697 Technical Rescue Refresher  
 0949 Test Taking 101  
 0863 Thermal Imaging Camera Seminar  
 0214 Traffic Incident Management (TIM)  
 0914 Trench Rescue Awareness  
 1452 Trench Rescue Awareness &  
 Operations  
 1454 Trench Rescue Technician  
 0914 Trench Rescue Operations Refresher  
 0209 Truck Company Operations I  
 0208 Truck Company Operations II  
 1015 Truck Company Operations  
 Refresher  
 0308 Vehicle Fires & Other Emergencies  
 0152 Vehicle Fires Practical  
 0728 Vehicle Rescue Awareness &  
 Operations  
 0156 Vehicle Rescue Refresher  
 0862 Vehicle Rescue Safety Update  
 0729 Vehicle Rescue Technician Training  
 0442 Ventilation Practical Refresher  
 0310 Ventilation Practices (TRVP)  
 0215 Volunteer Retention & Recruitment:  
 Problems & Solutions  
 0446 Water Rescue & Emergency  
 Response (WRER)  
 0580 Water Rescue for the First  
 Responder Awareness Level  
 0690 Water Supply & Pump Connections  
 0590 Winch Operations  
 1005 WMD Awareness Level



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***Age Restricted Classes***

Any classes not listed in the age restricted pages below will require the student to be 18 years of age on the first day of class.

**Minimum Age for Registration is 14 Years Old on First Day of Class**

<b><i>FSC #</i></b>	<b><i>Course Title</i></b>
0388	Autism Awareness for the First Responder
0296	Blood-borne Pathogens & Infectious Disease
0913	Bucks Basic Fire Academy
0120	Electric Vehicle Safety for Emergency Responders
0820	Emergency Response Guide Book Training (ERGB)
0517	Essentials Refresher
2462	Exterior Firefighting (ELEF)
0633	Fire Behavior
2460	Fire Ground Support (ELFG)
0147	Ground Ladder Refresher
0114	Hazardous Materials Awareness (RIHM) - NFA
0738	Hazardous Materials Awareness Level Annual Refresher Training (HMAR)
0917	Hazardous Materials Awareness Level Challenge NFPA 472
0550	High Rise Packs and Stand Pipes
2459	Introduction to the Fire Service (ELIS)
1053	Lithium – Ion Battery Incidents
0762	Online Hazardous Materials Awareness
0763	Online Hazardous Materials Awareness Level Annual Refresher
0417	Propane Emergencies Awareness - PPEA
0276	Salvage and Overhaul Refresher
0823	SCBA Refresher
0589	Search and Rescue Refresher
0949	Test Taking 101



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**Age Restricted Classes**

**Minimum Age for Registration is 16 Years Old on First Day of Class**

<b>FSC#</b>	<b>Course Title</b>	<b>FSC#</b>	<b>Course Title</b>
0571	Aircraft Emergency Awareness	0117	Hazardous Materials Defensive Practices (HMDP)
0602	Alternative Energy Vehicles	2472	Hazardous Materials Operations
0525	Automatic Detection & Suppression Systems (AUTO)	1737	Hazardous Materials Operations Annual Refresher Training
0341	Basic Rigging for Rope Rescue	0362	Hazardous Materials Personal Protective Equipment Review
0707	Building Construction Principles: Fire Resistive & Non-Combustible	1035	Highway Safety for Emergency Response Personnel
0780	Building Construction Principles: Wood & Ordinary Construction	0882	ICS-100: Introduction to the Incident Command System (ICS-100)
0153	Building Construction Refresher	0477	ICS-200: Incident Command System for Single Resources
0502	Carbon Monoxide Detector Response (CORE)	0509	ICS-300: Incident Command System for Expanding Incident & Supervisor
0360	Chlorine Emergencies Awareness	0511	ICS-400: ICS for Command & General Staff & Complex Incidents
0636	Class “A” Foam Awareness	0185	Incident Command System Refresher
0115	Conducting Basic Fire Prevention Inspection	0695	Introduction to Rescue Saw Safety
0851	Communication Overview for First Responders	0972	Introduction to Ropes, Knots, & Rope Rescue Rigging
0985	Compressed Air Foam Systems	0852	Legal Aspects for the First Responder
0353	Container and Vessel Identification	0313	Lockout / Tagout Procedures
0774	Decontamination Practices	0423	Mass Casualty Incident Overview and Practical Training
0740	Electrical Emergencies (ELFS)	0411	Mass Casualty Incident Review
0595	Elevator Rescue Awareness	0881	National Incident Management System; Introduction IS-700
0932	Emergency Response to Railroad Incidents	0487	National Response Plan: ICS 800
0531	Fire Attack in Sprinklered Properties	0856	Natural Gas / Propane / Carbon Monoxide Seminar
0673	Fire Streams Refresher		
0199	Firefighter Safety Awareness		
0507	Foam Fire Fighting Basic		
0666	Foam Fire Fighting Review		
0700	Forcible Entry (TFE)		
0104	Forcible Entry Refresher		
0834	Hazard Communications: HAZCOM		



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<b>FSC#</b>	<b>Course Title</b>
0948	NIMS – Emergency Planning and Review
0131	Orientation for Railroad Emergencies
0406	Permit Required Confined Space Entry
0565	Personal Accountability Systems
0588	Positive Pressure Ventilation Refresher
0832	Pre-Incident Planning
0806	Railcar Emergencies – RCEM
0270	Rapid Intervention Teams (RITC)
1010	Recruitment and Retention Seminar
0669	Rehabilitation for Firefighters Working in Emergencies
0424	Resource Accountability Officer
0346	Ropes and Knots
0349	Ropes and Riggings Refresher
0625	Rural Fire Ground Water Movement
0879	SCBA Refresher: Response Team Member
0850	Scene Preservation for First Responders (SPFR)
0381	Solar Panel Awareness for the Fire Service
0538	Sprinklers and Standpipes
0744	Structural Collapse Ops Level I
0415	Tanker Water Supply (TAWS)
0566	Tanker Water Supply Refresher
0863	Thermal Imaging Cameras Seminar
1178	Vehicle Rescue Awareness (NVRA)
1420	Vehicle Technical Rescuer Classes
0442	Ventilation Practical Refresher
0690	Water Supply and Pump Connection





### *Local Level Training Classes*

#### ***Advanced Fire Police (FIPA)***

**FSC:** 0635

**Hours:** 16.0 (Lecture: 12.0hrs / Lab: 4.0hrs)

**Prerequisites:** Age 18 and up, Basic Fire Police (FIPO)

**Gear:** Job Related PPE

**Description:** This course will touch upon training and the training officer's qualifications, policy and procedures, legal liabilities, court appearance, leadership, communications and public relations, defensive driving, traffic control, security, self-protection and uniforms

#### ***Advanced Line System Rescue (ALSR) – PA Fish & Boat Commission***

**FSC:** 0437

**Hours:** 16.0 (Lecture: 6.0hrs / Lab: 10.0hrs)

**Prerequisites:** Age 18 and up, Water Rescue & Emergency Response (WRER) PA Fish & Boat or Water Rescue / Emergency Response Phase I

**Gear:** Appropriate swimsuit, towels, get wet clothing for prevailing weather conditions, whistle, USCG approved personal flotation device (pfd), properly outfitted water rescue helmet, & proper PPE. (a type II vest if possible)

**Description:** To have students become aware how to set up and utilize various line systems for water rescue and to proficiently don and use a type V rescue vest.

#### ***Aerial Apparatus Practices (AELA)***

**FSC:** 0315

**Hours:** 16.0 (Lecture: 6.0hrs / Lab: 10.0hrs)

**Prerequisites:** Age 18 and up, Interior Firefighting (ELIF) or Bucks Basic Fire Academy or Firefighter 1 Certification

**Gear:** Turn out gear

**Description:** Students attending this course will, through classroom work and hands-on practice of basic skills, be introduced to the operational theory of aerials, aerial towers, and elevating platforms. Basic system design, safety, spotting/stabilization, operation, and elevated master stream operations are all covered.

#### ***Aerial Apparatus Practices Extended (ALEX)***

**FSC:** 0317

**Hours:** 24.0 (Lecture: 8.0hrs / Lab: 16.0hrs)

**Prerequisites:** Age 18 and up, Aerial Apparatus Practices

**Gear:** Turn out gear

**Description:** This course will give a more extensive treatment of the subject of aerial device operation than is afforded by the 16-hour version, Aerial Apparatus Practices. Through both classroom and hands-on practice, students will become familiar with basic design and operational theory of aerial devices, safety considerations, spotting and stabilizing, device operation, elevated master streams, and rescue. An introduction to basic truck company operations is also included.



### ***Air Monitoring Equipment Familiarization***

**FSC:** 0439

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Operations Level

**Description:** Through lecture and demonstration, this course will reinforce with the student the knowledge and skill sets required to operate department owned atmosphere monitoring equipment safely, accurately, and effectively. In addition, the student will operate and interpret data obtained from using department owned atmospheric monitoring equipment on simulated exercises. Subjects to be covered include identification of the various IDLH atmospheres, procedures for operating department owned air monitoring equipment, bump testing and fresh-air setup, equipment decontamination procedures, and data interpretation and management.

### ***Air Monitoring Instrumentation***

**FSC:** 0363

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Operations Level

**Description:** This course provides the student with the basic knowledge to accurately evaluate air quality during emergency incidents. This course will cover the facts and myths associated with air monitoring procedures. Subjects to be covered include identification of the various IDLH atmospheres, procedures for the selection and operation of air monitoring equipment, equipment decontamination procedures, data interpretation and management, and integrated monitoring exercises.

### ***Aircraft Rescue & Firefighting (ARFF)***

**FSC:** 0797

**Hours:** 40.0 (*Lecture: 30.0hrs / Lab: 10.0hrs*)

**Prerequisites:** Age 18 and up, IFSAC/Pro Board Fire Fighter II, Airport Rescue Fire Fighter Training

**Gear:** TOG, SCBA

**Description:** This course provides the instruction that will contribute to the student's knowledge of basic firefighting and rescue principles, airport features, aircraft identification, airfield markings, personal safety, and practical skills necessary for the student to effectively operate rescue and firefighting equipment.

### ***Alternative Energy Vehicles***

**FSC:** 0602

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This program contains information on recent vehicle safety technology upgrades, which may pose concerns with extrication efforts. This course covers basic vehicle safety and technology changes. Safety features such as: air bag systems, seat belt systems, fuel system changes, safe work zones, vehicle construction materials, and passenger compartment upgrades. Changes to size-up, extrication techniques, and resource needs will also be presented in this program.



### ***Apparatus Preventative Maintenance***

**FSC:** 0505

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Emergency Vehicle Driver Training, Basic knowledge of fire Apparatus construction & operation.

**Description:** Through lecture and practical exercises, this course will provide insight into the need for an apparatus preventative maintenance program from an operational, financial, and legal perspective. The course contains a review of recommended maintenance practices for both chassis components and all fire service related components such as pumps, aerials and hydraulic - powered equipment. A proper visual inspection of chassis and related components of vehicles will be demonstrated and practiced.

### ***Arson Awareness for Emergency Response Personnel (AAEP)***

**FSC:** 0735

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This class presents the students with a basic overview of fire chemistry and fire investigation for use in evaluating origin and cause determinations.

### ***Arson Detection for the First Responder (ADFR)***

**FSC:** 0734

**Hours:** 16.0 (*Lecture: 16.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** Upon successful completion, the student will be able to provide a clear definition of the role of initial responder organizations and to provide essential knowledge to enable them to recognize the potential of an intentionally set fire, preserve evidence, and properly report the information to appropriate officials.

### ***Autism Awareness for the First Responder***

**FSC:** 0388

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 14 and up

**Description:** Autism spectrum disorders (ASDs) are a group of developmental disabilities that can cause significant social, communication and behavioral challenges. People with ASDs handle information in their brain differently than other people. Someone on the spectrum is 7 times more likely to need emergency services and it is important that firefighters understand the best way to interact with a child or adult diagnosed with a spectrum disorder.



### ***Automatic Detection and Suppression Systems (AUTO)***

**FSC:** 0525

**Hours:** 8.0 (Lecture: 8.0hrs / Lab: 0.0hrs)

**Prerequisites:** Age 16 and up

**Description:** This course will provide the student with information on the use and importance of automatic detection systems used in conjunction with automatic suppression systems. Suppression systems discussed include: dry chemical, halon, carbon dioxide and foam.

### ***Basic Fire Police (BFPO)***

**FSC:** 0604

**Hours:** 16.0 (Lecture: 12.0hrs / Lab: 4.0hrs)

**Prerequisites:** Age 18 and up

**Description:** This course sets forth the need for fire police, as well as their legal police power, personal and professional qualifications, appointment and control, general and special duties, and limitations.

### ***Basic Rescue Task Force Concepts***

**FSC:** 0724

**Hours:** 16.0 (Lecture: 14.0hrs / Lab: 2.0hrs)

**Prerequisites:** Age 18 and up

**Description:** This course is designed to introduce EMS, fire, and law enforcement to the rescue task force concept as it pertains to responding to active shooter scenarios or acts of aggressive deadly behavior. This two-day course is will train responders personal safety, life-saving techniques, provider/patient movement, triage, and other important aspects of the concept. This concept allows EMS and fire to be partnered with law enforcement officers to enter secured areas and utilize their training to treat/transport injured individuals. This course offers both classroom and realistic scenario-based exercises.

### ***Basic Rigging for Rope Rescue (ROBR)***

**FSC:** 0341

**Hours:** 16.0 (Lecture: 4.0hrs / Lab: 12.0hrs)

**Prerequisites:** Age 16 and up, Introduction to Safety & the Training System

**Description:** Participants in this course will be introduced to rope, rope hardware, patient packing, and basic haul systems, which can be used in various aspects of rescue. The intent of this course is to provide rope and basic rigging experience for anyone interested in rope rescue, but particularly those who do not want to, or are unable, to rappel.

### ***Basic Rescue Refresher Practical***

**FSC:** 0158

**Hours:** 3.0 (Lecture: 2.0hrs / Lab: 1.0hrs)

**Prerequisites:** Age 18 and up, Vehicle Rescue Training

**Description:** This module contains all materials necessary to meet the needs of fire, rescue, and ambulance services currently providing for vehicle rescue operations on our highways. The Vehicle Rescue Training Module places emphasis upon the reinforcement of knowledge and skills to be used by rescue personnel to achieve a safe and efficient vehicle rescue operation.



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***Basic Water Rescue Refresher***

**FSC:** 0930

**Hours:** 4.5 (*Lecture: 1.5hrs / Lab: 3.0hrs*)

**Prerequisites:** Age 18 and up, Water Rescue Phase I (PA Fish & Boat Commission FCWR)

**Description:** This program is designed to review and refresh the student's skills through lecture and practical skills in Basic Water Rescue. This program will address basic concepts, PPE, ropes & knots, hand signals, water crossings and shore-based rescue. Students should have prerequisite knowledge of the Water Rescue and Emergency Response obtained through previous training in Water Rescue.

***Bloodborne Pathogens and Infectious Diseases Awareness***

**FSC:** 0296

**Hours:** 4.5 (*Lecture: 4.5hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 14 and up

**Description:** This course provides basic information on the diseases Hepatitis C and HIV, routes of entry and exposure, as well as the precautions needed to minimize/eliminate risk and regulatory requirements. This course meets federal regulations for awareness level information.

***Bucks Advanced Fire Academy***

**FSC:** 0916

**Hours:** 88.0 (*Lecture: 32.0hrs / Lab: 56.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Fire Academy, or Firefighter I Certification

**Description:** This course continues along the path to a complete basic firefighting education by introducing advanced concepts and techniques in such areas as ventilation, building construction, water supply, fire control, thermal imaging, engine and truck company techniques. The basic "whys and how" of fire ground tactical operations are introduced as well. This course prepares the candidate to test for Firefighter II certification.

***Bucks Basic Fire Academy***

**FSC:** 0913

**Hours:** 112.0 (*Lecture: 54.5hrs / Lab: 57.5hrs*)

**Prerequisites:** Age 14 and up

**Description:** Through classroom sessions and practical fieldwork, this course will give the recruit/new firefighter the ability to function safely and effectively as a member of a fire suppression organization. This program is designed to follow the NFPA 1001 Standard for Firefighter Professional Qualifications, for Fire Fighter 1.



***Building Construction: Fire Resistive & Non-Combustible***

**FSC:** 0707

**Hours:** 16.0 (Lecture: 16.0hrs / Lab: 0.0hrs)

**Prerequisites:** Age 16 and up

**Description:** 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 a fire are 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.

***Building Construction: Wood & Ordinary***

**FSC:** 0780

**Hours:** 16.0 (Lecture: 16.0hrs / Lab: 0.0hrs)

**Prerequisites:** Age 16 and up

**Description:** 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 a fire, are essential survival skills. This course prepares the student to accomplish these skills in buildings of wood frame or ordinary construction.

***Building Construction Refresher***

**FSC:** 0153

**Hours:** 3.0 (Lecture: 3.0hrs / Lab: 0.0hrs)

**Prerequisites:** Age 16 and up

**Description:** This course reviews building design and construction encountered by firefighters and officers. In addition, this course covers numerous fire attack safety concerns regarded as priority conditions during suppression efforts. This material is critical to effective fire ground decisions.

***Carbon Monoxide Detector Response (CORE)***

**FSC:** 0502

**Hours:** 3.0 (Lecture: 3.0hrs / Lab: 0.0hrs)

**Prerequisites:** Age 16 and up

**Description:** This course prepares students to effectively and safely respond to these common emergencies. Covered are the hazards of carbon monoxide, typical carbon monoxide sources in residential occupancies, carbon monoxide detector design, fire service monitoring equipment, and suggested response and investigation procedures.





### ***Chain Saw Safety***

**FSC:** 0529

**Hours:** 8.0 (*Lecture: 4.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This course presents essential safety concerns related to the inspection and operation of chain saws. Students will understand the mechanical operation and associated hazards related to the use of chain saws. Saw construction, safety features, safe saw handling, cutting techniques, field maintenance procedures and safety PPE will be covered in this program. This course will touch upon user training requirements and organizational policies & procedures.

### ***Chlorine “A” & “B” Containment Kit Operation***

**FSC:** 0364

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Technician

**Description:** Though classroom sessions and application exercises, this course reviews the procedures for the preparation and application of chlorine “A” & “B” containment kits. Topics include equipment identification, container information, PPE selection, air quality monitoring and application of equipment though simulated, integrated exercises.

### ***Chlorine Emergencies Awareness***

**FSC:** 0360

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up, Hazardous Materials Operations

**Description:** This course reviews the safety concerns and response procedures for emergency response personnel. The course will cover the toxicology concerns for operating safely during a chlorine emergency. In addition, this course covers the various types of containers that responders may encounter.

### ***Clandestine Drug Labs: Operations Level***

**FSC:** 0847

**Hours:** 8.0 (*Lecture: 8.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Fire Academy, or FF I

**Description:** This program addresses the safety considerations for emergency response actions for clandestine drug labs. This course brings to light the inherent dangers and exposure conditions often associated with these clandestine processes. This program will leave the student with a comprehensive overview of best practices defensive response actions in order to maintain responder safety. Subjects to be covered include lab indicators, establishing work zones, decontamination techniques and procedures, associated hazards, and a basic understanding of lab types and their associated safety issues.





### ***Clandestine Laboratory Awareness for First Responders***

**FSC:** 0827

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This program is designed to provide First Responders with the basic recognition and identification skills for clandestine laboratories and the dangers associated with the chemicals used to manufacture illegal drugs. The topics of discussion will include personnel safety when operating at these locations, hazardous materials and wastes produced and required interaction with law enforcement. Participants must be current members of a recognized First Responder agency.

### ***Confined Space Entry Introduction***

**FSC:** 0461

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This course is designed for individuals who work in or around confined spaces and open trenches. This program stresses the importance of recognizing the dangers of working in locations, where being overcome by atmospheric, engulfment or mechanical entrapment is an ever-present danger. The student learns how using safety measures such as permitting and proper protective equipment can greatly lessen the hazards in these situations. Practical use of air monitoring and confined space equipment is included in the program also a site visit to an open trench maybe included if one is available. This program follows the intent of OSHA 1910.146 and 1926.650 respectfully.

### ***Confined Space Technical Rescuer at the Awareness & Operations Level***

**FSC:** 1049

**Hours:** 16.0 (*Lecture: 6.5hrs / Lab: 9.5hrs*)

**Prerequisites:** Age 18 and up, Basic Ropes and Rigging

**Gear:** Helmet with chin strap, clean leather gloves, eye protection, work or hiking boots, knee pads if possible, outdoor work clothing or coveralls appropriate for weather conditions, and SCBA. TURNOUT GEAR IS NOT ACCEPTABLE.

**Text Book:**

**Description:** This program is designed to enhance the student's ability to perform critical skill sets in the field of technical rescue for confined space rescue. During this course, students will review technical rescue theories, techniques, and challenges to accurately and safely execute the skill sets required for professional certification. Topics include: scene management, mechanical advantage systems, rope management, anchor systems, rescue knots, size-up considerations, hazard identification and control, permit & non-permit required confined space areas, OSHA and NFPA applicable standards and laws, and patient care. This course is designed for the experienced rescuer with a strong working knowledge of technical rescue in accordance with NFPA 1006.



### ***Confined Space Rescue Refresher***

**FSC:** 0314

**Hours:** 8.0 (*Lecture: 4.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up, Confined Space Rescue

**Description:** Through classroom sessions and practical fieldwork, this course will give the student the ability to function safely and effectively as a member of a rescue team, operating at the scene of a confined space emergency. The subjects to be covered include safety procedures, definitions, rigging techniques, rescue techniques, and practical application through integrated exercises. This program is designed to follow the OSHA Regulation 29 CFR 1910.146.

### ***Container and Vessel Identification***

**FSC:** 0353

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up, Hazardous Materials Awareness

**Description:** This course will reinforce the student's knowledge regarding the various types of vessels and containers, commonly used for the transportation and storage of hazardous materials. The course enables the student to function safely and effectively in an area exposed to hazardous material releases due to container failure. After successful completion, the student will receive a certificate for this technician level training in accordance with 29 CFR 1910.120. Subjects to be covered include vessel/container types, containment considerations, vessel integrity, types of relief devices, and hazard identification.

### ***Decision Making for Initial Company Officer (DMICO)***

**FSC:** 0765

**Hours:** 16.0 (*Lecture: 16.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up, Preparation for Initial Company Officer (PICO)

**Description:** This course is designed to develop a better understanding of the roles and responsibilities of a Company Officer as they relate to NIMS, Fireground Decision Making, Building Construction types as well as Burn Time Considerations and LODDs from Collapse Incidents while preparing their company for incident operations.

### ***Decontamination Practices***

**FSC:** 0774

**Hours:** 8.0 (*Lecture: 4.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 16 and up, Hazardous Materials Operations

**Description:** This program is designed to teach emergency response team members how to select and implement decon strategies during a Hazmat/WMD event. This program will identify specialized techniques for assessment, product identification and monitoring, decontamination procedures, and the safe and effective execution of these procedures. Standardized operating procedures, established by the AHJ, will be addressed and presented throughout this program.



### ***Decontamination Review***

**FSC:** 0361

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Operations

**Description:** Through classroom sessions and practical fieldwork, this course will reinforce with the student the knowledge and skill objectives in order to function safely and effectively in an area exposed to hazardous materials, at an operational level, for the purpose of rescuer/patient decontamination. This course addresses decontamination procedures as identified in NFPA 472. Subjects to be covered include site safety management, personal protective equipment operation and selection, respiratory protection, chemical protective equipment (types and levels), techniques used for the avoidance of cross contamination, decontamination strategies and procedures, decon sector management, and lesson application through integrated field exercises.

### ***Dynamics of Emergency Vehicle Response (EVRD)***

**FSC:** 0186

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Emergency Vehicle Driver Training

**Description:** This course is designed as a supplement to the *Emergency Vehicle Operators Course* (EVOC). This course reviews some basic philosophies of safe vehicle response and operation and introduces the concept of space and speed management in the operation of any vehicle.

### ***Education Methodology for Local Level Instructors (EMLL)***

**FSC:** 0250

**Hours:** 40.0 (*Lecture: 36.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This program will provide the student with knowledge and skills needed to present training programs in an organized and professional manner. The student will develop lesson plans, presentations, and evaluation tools as part of this program. This program addresses methodology of teaching and learning. This program follows the standards as defined in NFPA 1041 and the PSFA, Office of the Fire Commissioner.

### ***Electric Vehicle Safety for Emergency Responders***

**FSC:** 0120

**Hours:** 6.0 (*Lecture: 6.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 14 and up

**Description:** This program contains information on hybrid and electric vehicle safety and technology upgrades, which may pose concerns with extrication efforts. This course covers basic vehicle safety and technology changes at an emergency response level. Operating systems, construction and safety features are discussed throughout the program. Safety features such as: air bag systems, seat belt pretension systems, fuel system and charging stations, safe work zones, low, medium, and high voltage systems, vehicle construction materials, hybrid vehicles, and passenger compartment upgrades. Changes to size-up, extrication techniques, and the use of a Field Operations Guide will also be presented in this program.



### ***Electrical Emergencies (ELFS)***

**FSC:** 0740

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** Slide presentation of electrical hazards, distribution systems, power plants and related electrical equipment. Review of firefighting practices around energized equipment, as well as do's and don'ts in dealing with electricity. A review of electricity, and visual display of common electrical equipment found in the community is shown, with common problems discussed. Proven response strategies will be discussed and evaluated.

### ***Elevator Rescue Awareness***

**FSC:** 0595

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course provides fire and rescue personnel with the ability to function accurately, safely, and effectively during rescue incidents involving this mode of public transportation. Topics include: pre-incident planning, hazard assessment and size-up, resource considerations, equipment identification, and lockout/tag out procedures.

### ***Elevator Rescue Emergencies***

**FSC:** 0548

**Hours:** 8.0 (*Lecture: 5.0hrs / Lab: 3.0hrs*)

**Prerequisites:** Age 18 and up,

**Description:** Through classroom sessions and application exercises, this course addresses the procedures for preparing, assessing, and safe and effective rescue involving elevators. This course is intended for the technician level rescuer to give them the ability to function, accurately, safely, and effectively during rescue incidents involving this mode of public transportation. Topics include: hazard assessment and size-up, resource management considerations, equipment identification, types of emergency responses, patient considerations, extrication procedures, crush syndrome, lockout/tagout procedures, pre-incident planning, and application of techniques and equipment through simulated, integrated exercises.

### ***Emergency Boat and Rescue Operations (EBOR)***

**FSC:** 0436

**Hours:** 16.0 (*Lecture: 4.5hrs / Lab: 11.5hrs*)

**Prerequisites:** Age 18 and up, Water Rescue & Emergency Response (WRER)

**Description:** This 16-hour program involves skills of boat operation for rescue including boat selection, recommended equipment, boat handling, boat used rescue technique, and extrication from the water. This class has special gear and equipment needs. Contact your local Field Director for a complete list of all gear and equipment.



### ***Emergency Response to Railroad Incidents***

**FSC:** 0932

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course was developed by CSX Transportation to help students to enhance the skills needed to safely perform your role as an emergency responder. The course is designed to serve as a guideline that could be incorporated into any jurisdictions Standard Operating Procedures. Topics include response size up and safety considerations, Initial action plan development and response procedures, Hazardous materials and dangerous cargo, tank cars, and specialized railroad specific equipment.

### ***Emergency Services Trailer Operations and Safety Program***

**FSC:** 1040

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Emergency Vehicle Driver Training, Current Driver's License

**Description:** This course provides classroom and field experience so participants have a better understanding of trailer operations and are able to apply gained knowledge in an emergency situation. Topics covered will include trailer types & characteristics; tow vehicle safety requirements; braking systems; towing equipment; pre-use inspection procedures; trailer loading; driving considerations. EVOC is a pre-requisite for this program. Students must have access to a tow vehicle and a trailer for use during the practical portion of this course.

### ***Emergency Services ATV / UTV Safety Program***

**FSC:** 0527

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Emergency Vehicle Driver Training, Current Driver's License

**Description:** This course provides classroom and field experience so participants have a better understanding of Utility Terrain vehicles (UTVs) and All-Terrain vehicles (ATVs) and their operation and are able to apply gained knowledge in an emergency situation. Utility Terrain vehicles (UTVs) and All-Terrain vehicles (ATVs) continue to gain wider acceptance and use in the emergency service. They have given organizations a less physically demanding, more rapid and effective response to emergency incidents and special events. Adding UTVs and ATVs to the ESO's fleet provides a great benefit but also can present safety issues if those using the vehicle have not been properly trained in the operations and maintenance of these types of vehicles. Manufacturers and retailers, have, and continue to stress the importance of proper training for the safe operation of their products. Training in the use of these vehicles should be part of the organization's commitment to safety. Topics covered will include safe vehicle operations, legal requirements, SOP / SOGs, manufacturers' requirements and driving considerations. Students must have access to a tow vehicle and a trailer for use during the practical portion of this course.



### ***Emergency Services Driver Training (EVDT)***

**FSC:** 0235

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Current Driver's License

**Description:** This course is suitable for both novice and veteran emergency vehicle operators. This course provides instruction for emergency personnel who may be involved in operating emergency vehicles. Topics included: defensive driving, emergency response, vehicle maintenance, and a driver training obstacle course. Students will be responsible for securing apparatus to drive.

### ***Emergency Vehicle Operations Refresher***

**FSC:** 0170

**Hours:** 8.0 (*Lecture: 4.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up, Emergency Vehicle Driver Training, Current Driver's License

**Description:** This course is designed as a supplement to and refresher for the EVOC course. This program will review due regard procedures, vehicle dynamics, and defensive driving practices. It reviews some basic principles of safe vehicle operation and introduces the concept of space and speed management in operation of any vehicle. In addition, the student is required to successfully pass the driving course. Students will be responsible for securing apparatus to drive.

### ***Engine Company Operations (ECOP)***

**FSC:** 0205

**Hours:** 16.0 (*Lecture: 4.5hrs / Lab: 11.5hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF), or Bucks Basic Academy, or FF 1

**Description:** This course provides instruction in the duties and responsibilities of an engine company. Topics include: fire behavior and spread in structures, positioning of apparatus, use of attack and backup lines, search and rescue, and water supply. A series of hands-on drills involving various engine company evolutions follows the classroom discussion.

### ***Engine Company Operations Refresher***

**FSC:** 0634

**Hours:** 6.0 (*Lecture: 3.0hrs / Lab: 3.0hrs*)

**Prerequisites:** Age 18 and up, Engine Company Operations

**Description:** This program reviews the duties and responsibilities assigned or implied to engine company personnel. This course will review operational considerations for various suppression conditions and other topics involving engine company operations.

### ***Essentials Refresher***

**FSC:** 0517

**Hours:** 24.0 (*Lecture: 6.0hrs / Lab: 18.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF), or Bucks Basic Academy, or FF 1

**Description:** This course will review the skills learned in the "Essential Basic Module I" course. Topics reviewed include hose loads and advancement, fire streams and water supply, ground ladders, forcible entry, and the use of SCBA.





### ***Exterior Firefighter (ELEF)***

**FSC:** 3462

**Hours:** 40.0 (*Lecture: 14.5hrs / Lab: 25.5hrs*)

**Prerequisites:** Age 14 and up, Fire Ground Support, or Bucks Basic Academy, NIMS – 100 & 700

**Text Book:** IFSTA Essentials of Firefighting 7<sup>th</sup> Edition

**Description:** This entry level course is designed to introduce new firefighters to fire ground operation including Self-Contained Breathing Apparatus (SCBA), fire behavior, building construction, fire extinguishers, forcible entry, ladders, and fire streams/hose line advancement. This is the third of five levels (courses) in the curriculum.

### ***Fire Attack in Sprinklered Properties (FMSP)***

**FSC:** 0531

**Hours:** 6.0 (*Lecture: 6.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course provides instruction in the basic types of sprinkler systems, major components and operation of each type of system. Specific fire department functions to assist a sprinkler system will be discussed. Also included is a discussion of special situations and considerations that must be made when operating at Sprinklered properties.

### ***Fire Behavior***

**FSC:** 0633

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 14 and up

**Description:** In this program, the firefighter is introduced to fire behavior and its effects on both objects and living beings. This program will teach the firefighter to quickly recognize fire hazards and inherent life-threatening dangers.

### ***Fire Control Refresher***

**FSC:** 0674

**Hours:** 4.0 (*Lecture: 1.0hrs / Lab: 3.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter or Bucks Basic Academy, or Firefighter 1

**Description:** “Fire Control” is a study concerning the actions required of fire fighters when they effectively manipulate machinery and appliances in order to apply water in a form that is best suited to extinguish fire. This course involves live fire evolutions.

### ***Fire Dynamics: Fundamentals (FDF)***

**FSC:** 0800

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course provides the firefighter the basic knowledge to reinforce the evidence-based research conducted by Underwriters Laboratories, National Institute of Standards and Technology. Alcohol Tobacco and Firearms and other fire service organizations. This course introduces new terminology related to fire dynamics, legacy verse modern fuel loads, new construction techniques, flow paths, door control, and ventilation that all impact fire ground operations.





### ***Fire Dynamics: Strategy and Tactics (FDST)***

**FSC:** 0801

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up, Fire Dynamics Fundamentals

**Description:** This course provides the firefighter the basic knowledge of strategy and tactics and how to apply the evidence-based fire research conducted by Underwriters Laboratories, National Institute of Standards and Technology, Alcohol Tobacco and Firearms and other fire service organizations to fire ground operations. This course introduces new terminology related to fire dynamics, ventilation, flow paths, door control, transitional fire attack, basement fires, and new concepts for developing strategy and tactics.

### ***Firefighter I Skills Enhancement (FCIP)***

**FSC:** 0139

**Hours:** 32.0 (*Lecture: 14.0hrs / Lab: 18.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Academy, or Structure Burn Session

**Description:** This course is designed to refresh and reinforce the basic knowledge and skills required by any fire fighter who wishes to work efficiently, effectively and safely as part of a team on the fire ground.

### ***Firefighter II Certification Preparation***

**FSC:** 0207

**Hours:** 24.0 (*Lecture: 10.0hrs / Lab: 14.0hrs*)

**Prerequisites:** Age 18 and up, Firefighter I Certification

**Description:** This course is designed to prepare a fire fighter for the Fire Fighter II certification test. This is done by providing application assistance, quizzes on each of the topics included in the eight Fire Fighter II certification skills and hands-on (or discussion when hands-on is not practical), review of the eight Fire Fighter II certification skills. If time permits, the last class will be a “mock” FF II certification test including a selection of some of the eight FF II certification skills.

### ***Firefighter Safety Awareness***

**FSC:** 0199

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This program introduces fire fighters to safety concerns addressed in NFPA1500. The course covers all aspects of fire fighter safety, from the fire house to the fire ground. Additionally, the need for fire fighter wellness programs, both physical and mental, is covered.



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***Firefighter Survival (SURV)***

**FSC:** 0202

**Hours:** 16.0 (*Lecture: 6.0hrs / Lab: 10.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Academy, or Structure Burn Session, or Firefighter I Certification

**Description:** This program is a physically demanding, comprehensive program dealing with the necessary knowledge and skills relative to rescue procedures needed for self-rescue. Emphasis will be placed on search techniques, communications, accountability/location and self-rescue procedures. This program will teach the firefighters how to reduce the risk of fire fighter injuries and deaths in Pennsylvania. The class will enable fire fighters to become more aware and familiar with procedures that may be used to prevent or perhaps lessen the seriousness of injuries or even save their lives. Students must be in adequate physical condition to perform 100% of all practical exercises.

***Fire Ground Support (ELFG)***

**FSC:** 3460

**Hours:** 32.0 (*Lecture: 12.0hrs / Lab: 20.0hrs*)

**Prerequisites:** Age 14 and up, Introduction to the Fire Service (ELIS), or Bucks Basic Academy

**Text Book:** IFSTA Essentials of Firefighting 7<sup>th</sup> Edition

**Description:** This entry level course is designed to introduce new firefighters to fire ground operation including fire behavior, building construction-structural collapse, fire hose, water supply, communications, ropes and knots, Self-Contained Breathing Apparatus (SCBA). This is the second of five levels (courses) in the curriculum.

***Fire Police Refresher***

**FSC:** 0663

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up, Basic Fire Police

**Description:** This program provides essential updates for fire police personnel regarding law and procedural changes for fire police duties. The student will review current or recent cases regarding job or performance related liabilities and unsafe actions. This course is designed as a refresher program for the advanced fire police officer.

***Fire Streams Refresher***

**FSC:** 0673

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up, Exterior Firefighter (ELEF), or Bucks Basic Academy

**Description:** “Fire Streams” is a study concerning the actions required of fire fighters when they effectively manipulate machinery and appliances in a form that is best suited to extinguish fire. This section concentrates on the requirements that that hose line user needs to know.



### ***Flammable Gasses Review***

**FSC:** 0148

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF), or Bucks Basic Academy

**Description:** This program is designed to review the types and nature of flammable gases. This course will reinforce pre-existing knowledge and skills acquired by the student in previous training programs. Topics include: physical and chemical properties of flammable gases, suppression strategies, resources and equipment needs, and agent selection and application.

### ***Flammable Liquids Firefighting (FLBU)***

**FSC:** 0725

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF), or Bucks Basic Academy, or Firefighter I Certification, and Hazardous Materials Operations

**Description:** The student will learn the parameters of and the procedures necessary to attack and extinguish fires involving flammable liquids. This course will introduce the student to basic fire chemistry, characteristics of flammable liquids, parameters of combustion, and extinguishment techniques using dry chemical, water, and foam on live flammable liquid fires.

### ***Flammable Liquids Review***

**FSC:** 0162

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF), or Bucks Basic Academy

**Description:** This program is designed to review for the fire fighter the types and nature of flammable liquids. It also serves to reinforce pre-existing knowledge and skills acquired by the student in previous training programs.

### ***Foam Firefighting Review***

**FSC:** 0666

**Hours:** 4.0 (*Lecture: 3.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 16 and up, Exterior Firefighter (ELEF), or Bucks Basic Academy

**Description:** This course will introduce students to basic information concerning the use of foam as a flammable liquid fire extinguishing agent. This module is targeted at the first responder who will be faced with the task of fire suppression.

### ***Forcible Entry (TFE)***

**FSC:** 0700

**Hours:** 16.0 (*Lecture: 12.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 16 and up, Exterior Firefighter (ELEF), or Bucks Basic Academy

**Description:** This course will provide the fire fighter with a better understanding of building construction as applies to forcible entry. This program will cover opening techniques and the use of tools for safe and quick access to a structure.



### ***Forcible Entry Refresher***

**FSC:** 0104

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 16 and up, Exterior Firefighter (ELEF), or Bucks Basic Academy

**Description:** This program teaches the student the principles of forcible entry as it relates to the fire fighter. Students will be shown how to use a variety of forcible entry equipment. Also shown will be situations they may encounter that require the use of forcible entry.

### ***Ground Ladder Refresher***

**FSC:** 0147

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 14 and up, Exterior Firefighter (ELEF), or Bucks Basic Academy

**Description:** This course reviews fire service ground ladders. The student will be drilled in how to properly raise, lower, and apply fire service ground ladders in fire service applications.

### ***Hazardous Materials Awareness (HMA)***

**FSC:** 2114

**Hours:** 6.0 (*Lecture: 6.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 14 and up

**Textbook:** IFSTA Hazardous Materials for First Responders 6<sup>th</sup> Edition

**Description:** This course will provide instruction in the basic skills of identifying hazardous material problems in a community. The student will learn to recognize the presence of hazardous materials and identify hazardous materials, as well as learn the associated hazard characteristics.

### ***Hazardous Materials Awareness Annual Refresher (HMAR)***

**FSC:** 1738

**Hours:** 2.0 (*Lecture: 2.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 14 and up, Hazardous Materials Awareness

**Description:** This course will provide a refresher to the student with a basic review of skills needed to identify hazardous materials problems, recognize the presence of hazardous materials, and identify hazardous materials and their associated dangers.

### ***Hazardous Materials Operations (HMO)***

**FSC:** 2472

**Hours:** 32.0 (*Lecture: 20.0hrs / Lab: 12.0hrs*)

**Prerequisites:** Age 16 and up, Hazardous Materials Awareness

**Textbook:** IFSTA Hazardous Materials for First Responders 6<sup>th</sup> Edition

**Description:** The goal of this program is to provide the First Responder with the training needed to comply with NFPA 470 Chapter 5 Competencies for the First Responder at the Operational Level, and 29 CFR 1910.120 OSHA's Hazardous Waste Operations and Emergency Response, (HAZWOPER), First Responder Operations Level. This program is designed to give the first responder the necessary skills to handle hazardous materials emergencies. After successfully completing this course you would be eligible to take the national certification testing for national certification in Hazardous Materials Operations Level.



***Hazardous Materials Operations Annual Refresher – ICS & WMD***

**FSC:** 1736

**Hours:** 6.0 (Lecture: 3.0hrs / Lab: 3.0hrs)

**Prerequisites:** Age 16 and up, Hazardous Materials Operations

**Description:** Provide refresher training for first responders that respond to releases or potential releases of hazardous substances as part of the initial response for the purpose of protecting nearby persons, property, and the environment. Personnel are trained to respond in a defensive fashion to contain the release from a safe distance, to keep it from spreading, and to protect exposures. They must understand basic hazard and risk assessment, how to select and use proper personnel protective equipment, basic hazardous materials terms, basic control, containment and/or confinement operations within the capabilities of the resources and Personal Protective Equipment (PPE) available, and basic decontamination procedures and termination procedures.

***Hazardous Materials Operations Annual Refresher – Identify Potential Hazards & Containers***

**FSC:** 1737

**Hours:** 6.0 (Lecture: 3.0hrs / Lab: 3.0hrs)

**Prerequisites:** Age 16 and up, Hazardous Materials Operations

**Description:** Provide refresher training for first responders that respond to releases or potential releases of hazardous substances as part of the initial response for the purpose of protecting nearby persons, property, and the environment. Personnel are trained to respond in a defensive fashion to contain the release from a safe distance, to keep it from spreading, and to protect exposures. They must understand basic hazard and risk assessment, how to select and use proper personnel protective equipment, basic hazardous materials terms, basic control, containment and/or confinement operations within the capabilities of the resources and Personal Protective Equipment (PPE) available, and basic decontamination procedures and termination procedures.

***Hazardous Materials Operations Annual Refresher – Product Control & Emergency Decontamination***

**FSC:** 1736

**Hours:** 6.0 (Lecture: 3.0hrs / Lab: 3.0hrs)

**Prerequisites:** Age 16 and up, Hazardous Materials Operations

**Description:** Provide refresher training for first responders that respond to releases or potential releases of hazardous substances as part of the initial response for the purpose of protecting nearby persons, property, and the environment. Personnel are trained to respond in a defensive fashion to contain the release from a safe distance, to keep it from spreading, and to protect exposures. They must understand basic hazard and risk assessment, how to select and use proper personnel protective equipment, basic hazardous materials terms, basic control, containment and/or confinement operations within the capabilities of the resources and Personal Protective Equipment (PPE) available, and basic decontamination procedures and termination procedures.



### ***Hazardous Materials Operations Annual Refresher – Initial Response & PPE***

**FSC:** 1735

**Hours:** 6.0 (*Lecture: 3.0hrs / Lab: 3.0hrs*)

**Prerequisites:** Age 16 and up, Hazardous Materials Operations

**Description:** Provide refresher training for first responders that respond to releases or potential releases of hazardous substances as part of the initial response for the purpose of protecting nearby persons, property, and the environment. Personnel are trained to respond in a defensive fashion to contain the release from a safe distance, to keep it from spreading, and to protect exposures. They must understand basic hazard and risk assessment, how to select and use proper personnel protective equipment, basic hazardous materials terms, basic control, containment and/or confinement operations within the capabilities of the resources and Personal Protective Equipment (PPE) available, and basic decontamination procedures and termination procedures.

### ***Hazardous Materials Technician***

**FSC:** 0772

**Hours:** 80.0 (*Lecture: 48.0hrs / Lab: 32.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Operations

**Textbook:** IFSTA Hazardous Materials Technician 3<sup>rd</sup> Edition

**Description:** This course will give the student the ability to function safely and effectively in an area exposed to hazardous materials. Subjects to be covered include site safety procedures, personal protective equipment, containment techniques, atmospheric monitoring, hazcating, decontamination procedures, incident management systems, and integrated exercises. This course has special PPE requirements, please consult with your local Field Director to schedule this program.

### ***Hazardous Materials Technician Refresher***

**FSC:** 0781

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Technician

**Description:** This course will review site safety procedures, personal protective equipment, containment techniques, decontamination procedures, and incident management systems. In addition, the course will reinforce to the student how to function safely in an area exposed to hazardous materials.

### ***Health and Safety Officer (HSO)***

**FSC:** 0141

**Hours:** 20.0 (*Lecture: 20.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Introduction to Fire Officership (INFO), or Officer Experience

**Description:** The target audience of this course is any individual who has an active involvement in planning, organizing, implementing, or monitoring a department-level occupational health and safety program within their fire service organization. Such topics as risk analysis, wellness, program management, and other occupational safety issues are covered in depth.





### ***Heavy Truck Rescue***

**FSC:** 0622

**Hours:** 8.0 (*Lecture: 4.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up, Basic Vehicle Rescue Training

**Description:** This program addresses the hazards and resource demands for extrication emergencies involving large and heavy vehicles. Addressed in this program, are vehicle design considerations, weight distribution hazards, payloads, strength points, and special hazard considerations. The course teaches the student how to assess, stabilize, and access vehicles of greater size and weight. Students will learn how to address special resource needs encountered during extrication emergencies.

### ***Heavy Vehicle Rescue Operations and Problem Solving***

**FSC:** 1014

**Hours:** 16.0 (*Lecture: 4.0hrs / Lab: 12.0hrs*)

**Prerequisites:** Age 18 and up, Basic Vehicle Rescue, and Special Vehicle Rescue Training

**Description:** The hazards and resource demand for extrication emergencies involving large and heavy vehicles will be reviewed in this course, as well as, vehicle design considerations, weight distribution hazards, payloads, strength points, and special hazard considerations. The course is designed for the experienced rescuer and incorporates various extrication strategies, operational tactics, and situational assessment techniques during integrated exercises. Exercise evaluations will be based on size-up, incident action planning, extrication strategies and tactics, patient packaging and removal, and termination.

### ***High Rise Firefighting (HIRI)***

**FSC:** 0537

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF), or Bucks Basic Academy, or Firefighter I, and Engine Company & Truck Company Operations

**Description:** This course will provide the instruction in fighting fires in high rise buildings. The special problems encountered by the fire fighter in this type of fire are also discussed. Safe operations and the use of a tactical checklist and application of the Incident Command System are stressed.

### ***High Rise Packs and Stand Pipes***

**FSC:** 0550

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 14 and up, Exterior Firefighter (ELIF), or Bucks Basic Academy

**Description:** This program is to introduce the student to the workings of standpipe systems and High-rise packs though both visual and hands on demonstrations. This program shows the fire fighter how the two systems work together. The lessons learned in this program can be applied to other training situations.





### ***Highway Incident Scene Safety and Management***

**FSC:** 0351

**Hours:** 16.0 (*Lecture: 14.0hrs / Lab: 2.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This program addresses the several safety and logistical issues commonly associated with emergencies occurring major highways. The course will cover in depth the Unified Command Structure, work zones management, and emergency response procedures recommended for responder safety. Scene access, incident stabilization, multi-agency response, and responder safety is addressed in this program.

### ***Ice Rescue & Emergency Response (IRER) PA Fish & Boat***

**FSC:** 0435

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Water Rescue & Emergency Response

**Description:** Students will learn how to identify ice conditions, use ice rescue equipment and practice shore, boat and direct contact ice rescue techniques. Special gear is required for this program. Please contact your local Field Director if you have questions.

### ***ICS – 100: Introduction to the Incident Command System***

**FSC:** 0882

**Hours:** 9.0 (*Lecture: 9.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** ICS orientation is intended for personnel assigned to an incident or event who have a minimum requirement for understanding ICS. This module reviews the ICS organization, basic terminology, and common responsibilities. It will provide enough information about the Incident Command System to enable you to work in a support role at an incident or to support an incident from an off-site location.

### ***ICS – 200: Incident Command System for Single Resources & Initial Action***

**FSC:** 0477

**Hours:** 12.5 (*Lecture: 8.0hrs / Lab: 4.5hrs*)

**Prerequisites:** Age 16 and up, ICS – 100

**Description:** This course is designed to enable personnel to operate efficiently during an incident or event within the Incident Command System (ICS). This program is designed for personnel who are likely to assume a supervisory position with the ICS. Topics include: Leadership and Management; Delegation of Authority and Management by Objectives; Functional Areas; Briefings; Organizational Flexibility; Transfer of Command; and Resource availability.



### ***ICS – 300: Incident Command for Expanding Incident & Supervisors***

**FSC:** 0509

**Hours:** 24.0 (Lecture: 11.0hrs / Lab: 13.0hrs)

**Prerequisites:** Age 16 and up, ICS – 200, or NIMS ICS for the Fire Service, or NIMS ICS for Emergency Medical Service

**Description:** This course is designed to provide overall incident management skills rather than tactical expertise. The course will cover the implementation of the incident management process on Type 3 incidents; define a Type 3 incident, and the development of an Incident Action Plan. Determining capabilities to match Incident complexity will be discussed. When and how to add appropriate ICS positions to match the complexity of the incident will be explored. The use of Incident Management Teams will be discussed.

### ***ICS – 400: Incident Command for IC & General Staff for Complex Incidents***

**FSC:** 0511

**Hours:** 16.0 (Lecture: 7.5hrs / Lab: 8.5hrs)

**Prerequisites:** Age 16 and up, ICS – 300

**Description:** This course is designed to provide overall incident management skills rather than tactical expertise. This course will discuss how major incidents pose special management challenges. It will explore the circumstances in which an Area Command is established and describes the circumstances in which multi-agency coordination systems are established. This course is designed for senior personnel who are expected to perform in a management capacity in an Area Command or multi-agency coordination system.

### ***ICS & Resource Management for the Fire Service***

**FSC:** 0514

**Hours:** 14.5 (Lecture: 8.5hrs / Lab: 6.0hrs)

**Prerequisites:** Age 16 and up

**Description:** The purpose of this course is to introduce basic concepts of incident management and the ICS and to provide a basis for application of ICS to a variety of incidents. Successful completion of the course fulfills the requirements for ICS 100 and 200. The students will examine the Incident Command System (ICS) organization and related forms. They will share experiences from their jurisdictions and organizations. This learning experience will empower the students to better understand and participate in the ICS activities of the home jurisdictions.

### ***Incident Command System Refresher***

**FSC:** 0185

**Hours:** 3.0 (Lecture: 3.0hrs / Lab: 0.0hrs)

**Prerequisites:** Age 16 and up

**Description:** To provide emergency and private sector response personnel with the information needed to use and implement the Incident Command System. This course is designed to meet the needs of fire officers and managers with the responsibilities to use, deploy, implement and /or function within a departmental Incident Command System. This program addresses the need of the incident management systems, and overview of the structure and expandability if ICS, an understanding of the command skills needed by departmental officers/managers to effectively use ICS.



### ***Incident Safety Officer (ISO)***

**FSC:** 0108

**Hours:** 16.0 (*Lecture: 16.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Operations, and NIMS ICS for the Fire Service, or NIMS ICS for Emergency Medical Service, or Equivalent

**Description:** This course focuses on the duties of the person who finds him/herself in the role of the responding safety officer at the scene of an incident. It is an incident-specific, scene-oriented course designed to teach what a safety officer on the scene needs to know and be able to do, using scenario to convey instructional points. Students should be experienced company officers, familiar with safety issues, the Incident Command System, hazardous materials management, and applicable NFPA standards and federal regulations.

### ***Initial Response: Residential Strategy and Tactics***

**FSC:** 0828

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, ICS – 100 & 200

**Description:** This program focuses on applying proven strategies and tactics used by initial units. Designed for both the experienced firefighter and company officer, this program addresses critical factors for successfully managing residential structural suppression incident. Topics include: Incident Management Overview; Fire Behavior; Building Construction & Occupancy; Size-up Assessment and Evaluation; Incident Priorities; Tactical Benchmarks & Models, as well as, analysis of case scenarios.

### ***Interior Firefighter (ELIF) With and Without Live Fire***

**FSC:** 3469 (Live Fire)

**Hours:** 48.0 (*Lecture: 17.0hrs / Lab: 31.0hrs*)

**FSC:** 3463 (No Fire)

**Hours:** 48.0 (*Lecture: 17.0hrs / Lab: 31.0hrs*)

**Prerequisites:** Age 18 and up or 17 with Act 155, Exterior Firefighter (ELEF), or Bucks Basic Academy, or Firefighter I, and Hazardous Materials Operations

**Text Book:** IFSTA Essentials of Firefighting 7<sup>th</sup> Edition

**Description:** This entry level course is designed to introduce new firefighters to interior fire ground operations including Self-Contained Breathing Apparatus (SCBA), Search and Rescue Procedures, Firefighter Survival, Ventilation, Utility and Loss Control, Origin and Cause, and Fire Control (Suppression). This is the fourth of five levels (courses) in the curriculum.

### ***Introduction to the Fire Service (ELIS)***

**FSC:** 3459

**Hours:** 16.0 (*Lecture: 10.0hrs / Lab: 6.0hrs*)

**Prerequisites:** Age 14 and up

**Text Book:** IFSTA Essentials of Firefighting 7<sup>th</sup> Edition

**Description:** This entry level course is designed to introduce new firefighters to basic information including an overview of the fire service, fire service organization, firefighter safety, personal protective equipment, tools and emergency lighting, and backing apparatus. This is the first of five levels (courses) in the curriculum.



### ***Introduction to Fire Officership (INFO)***

**FSC:** 0226

**Hours:** 16.0 (Lecture: 16.0hrs / Lab: 0.0hrs)

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF), or Bucks Basic Academy, or FF -1

**Description:** Fire Officers will give the student a basic overview of fire ground officer responsibilities, personnel issues, fire ground operations, and the development of a sound and effective administrative and fire ground organizational structure.

### ***Introduction to Rescue Saw Safety***

**FSC:** 0695

**Hours:** 4.0 (Lecture: 4.0hrs / Lab: 0.0hrs)

**Prerequisites:** Age 16 and up, Exterior Firefighter (ELEF)

**Description:** This course presents essential safety concerns related to the inspection and operation of rescue saws. Saw construction, saw safety features, safe saw handling, and safety PPE will be covered in this program. This course will touch upon user training requirements and organizational policies & procedures.

### ***Introduction to Ropes, Knots and Rope Rescue Rigging***

**FSC:** 0972

**Hours:** 8.0 (Lecture: 3.0hrs / Lab: 5.0hrs)

**Prerequisites:** Age 16 and up

**Description:** This class will teach the student the basic knots needed for fire and rescue operations. This course covers rope and webbing constructions, knot types, knot applications, and specialized rope rescue equipment. This module provides an application step for students to lift equipment and construct basic rigging systems. This course provides students with an opportunity for hands-on sessions for gaining proficiency with knots and systems.

### ***Ladder Company Review***

**FSC:** 0183

**Hours:** 3.0 (Lecture: 2.0hrs / Lab: 1.0hrs)

**Prerequisites:** Age 18 and up, Truck Company Operations I (TRCO)

**Description:** This course is designed to increase and reinforce the student's ability to recognize their duties and responsibilities while acting as a company officer or member of a ladder company crew.

### ***Legal Aspects for the First Responder***

**FSC:** 0852

**Hours:** 4.0 (Lecture: 4.0hrs / Lab: 0.0hrs)

**Prerequisites:** Age 16 and up

**Description:** This program is an awareness level training program identifying the legal responsibilities of the first responder. This program will provide the student with an overview of the laws and standards as they apply to emergency service providers. Discussions will relate to specific laws and standards that relate to organizational operation and administration. This program places emphasis upon the development of knowledge used by emergency service personnel to achieve an efficient documentation system and departmental operating guidelines.



### ***Lithium – Ion Battery Incidents***

**FSC:** 1053

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 14 and up

**Description:** Lithium-ion battery incidents have proven to be a challenge to the fire service requiring extended manpower hours and copious amounts of water to extinguish them. Most fire department actions have been a “Press Pause” for them to only reignite hours, days, or weeks later. This program will cover chemical/physical properties, terminology, causes of failure, chemical/physical hazards, recognition/identification, firefighter safety, reference resources, operation modes, extinguishing/cooling methods, secondary responder guidance, incident termination, and educational resources for responders and the community. The program will cover incidents involving electric vehicles, mobility devices, electronic devices, tools/equipment, transportation shipping, and energy storage systems.

### ***Lockout / Tagout***

**FSC:** 0313

**Hours:** 2.0 (*Lecture: 2.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course reviews lockout tag out policies and procedures that create a safe and effective work environment. Topics include: identifying energy sources, isolation procedures, de-energizing and verification, hazard communications, and terminating incidents involving energy source isolation.

### ***Mass Decontamination***

**FSC:** 0497

**Hours:** 4.0 (*Lecture: 2.0hrs / Lab: 2.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Operations

**Description:** The goal of this program shall be to provide the operations level responder assigned to perform mass decontamination at hazardous materials / WMD incidents with the knowledge and skills to safely and effectively perform the tasks in accordance with NFPA 472 6.3.1.2.2. Topics include: Station manning, apparatus positioning, water supply & delivery requirements, site management & security, accountability, decontamination techniques, and resource identification, setup, and operation.

### ***Natural Gas / Propane / Carbon Monoxide Seminar***

**FSC:** 0856

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course discusses properties of these three gases. In addition, this course covers the health risks to first responders. Topics include hazard control, physical and chemical properties, and monitoring devices and techniques used during the management of these incidents.



### ***New Aerial Apparatus Familiarization (NAEP)***

**FSC:** 0321

**Hours:** 8.0 (*Lecture: 3.5hrs / Lab: 4.5hrs*)

**Prerequisites:** Age 18 and up

**Description:** Upon completion of this course, and experienced aerial apparatus operator will be able to safely and effectively operate a specific piece of new aerial apparatus assigned to his/her organization, performing all operations in compliance with the provisions contained in the manufacturer's operation/service manual. This course will acquaint the student with the design features, safety requirements, and operational procedures for specific aerial devices. Service and maintenance information as well as practical experience are provided. This course is generally provided where there is a need to expose experienced operators to the characteristics of an apparatus new to their department.

### ***NIMS IS – 700: National Incident Management System Introduction***

**FSC:** 0881

**Hours:** 8.0 (*Lecture: 8.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course introduces the student to the National Incident Management System (NIMS); the need for NIMS, what NIMS is, and NIMS compliance.

### ***NIMS IS – 800: National Response Plan Introduction***

**FSC:** 0487

**Hours:** 9.0 (*Lecture: 9.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course is designed to enable personnel to operate efficiently during an incident or event of significant magnitude in accordance with the National Response Plan. This program is designed for personnel who are likely to assume a supervisory position with the ICS or Emergency Response. Topics include: Plan Basics; Roles and Responsibilities; Concept of Operations; Integrating the National Response Plan; General Information.

### ***Pre-Incident Planning***

**FSC:** 0832

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** Through classroom sessions this course will provide the student with a comprehensive understanding of the importance of pre-incident planning. This course will outline the planning criteria for an effective emergency response. The student will gain a better understanding for identifying risks and hazards associated with all emergency responses. Topics include: planning criteria, construction types, fire behavior, environmental considerations, and special response and water supply considerations.





### ***Preparation for Initial Company Operations (PICO)***

**FSC:** 0380

**Hours:** 16.0 (*Lecture: 16.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF), or Bucks Basic Academy, or FF - 1

**Description:** This course is designed to prepare the student to function as a company officer, by developing the skills required to safely and successfully managing company tactical operations at structural fires. The first in the series of programs designed to meet the needs of fire officers and crew operations. This course will provide a basic foundation for the management of one or more companies' development of proficiency in critical skills. Key content includes Roles and Responsibilities, Readiness, Communication, Building Construction and Fire Behavior Factors, and Pre-incident Preparation.

### ***PTSD Awareness for the Fire Service***

**FSC:** 0868

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This program defines PTSD, risk factors for firefighters, signs and symptoms to look out for in Fire Departments and what to do if one of your members is showing these signs. Discussion will provide students with the tools to make their Departments aware of the needs of response personnel in dealing with and discussing behavior wellness issues.

### ***Pump Operations I (PUOP)***

**FSC:** 0420

**Hours:** 16.0 (*Lecture: 10.0hrs / Lab: 6.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This course provides the fire fighter with an introduction to basic pump construction and theory as well as operating techniques. Emphasis is placed on getting water to the pump, getting water from the pump for hose streams, and prevention of common mistakes in pump operations.

### ***Pump Operations II (PUOA)***

**FSC:** 0421

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Pump Operations I

**Description:** This course is designed to instruct the student in advanced techniques of operating fire pumps. Topics covered include friction loss, relay pumping, master streams, and elevated master streams.

### ***Pump Operations Refresher***

**FSC:** 0921

**Hours:** 8.0 (*Lecture: 2.0hrs / Lab: 6.0hrs*)

**Prerequisites:** Age 18 and up, Pump Operations I

**Description:** This program is designed as a refresher program for pump operations. A review of subjects such as: water movement, hydraulics theory, basic pump components, and field exercises dealing with single and multiple hose lines, in both attack and supply mode operating from static and positive water supply sources.





### ***Quint Concept: Strategy and Tactics***

**FSC:** 0106

**Hours:** 4.0 (*Lecture: 2.0hrs / Lab: 2.0hrs*)

**Prerequisites:** Age 18 and up, Pump Operations I

**Description:** This course is designed for experienced firefighters and will introduce the student to the basic concept of the quint company. Topics include: organizing the roles and responsibilities of quint company services, selection and use of key operational options, apparatus placement strategies, fire ground size-up and foreseeability, and operational considerations for the quint apparatus.

### ***Railcar Emergencies (RCEM)***

**FSC:** 0806

**Hours:** 8.0 (*Lecture: 6.0hrs / Lab: 2.0hrs*)

**Prerequisites:** Age 16 and up, Hazardous Materials Operations

**Description:** This course provides participants with a basic understanding of the construction of railcars, the anatomy of railcars, and the various type of vessel used on today's railways. The course will cover the classes of railcars, various valve configurations, and safety components used on railcars. This course has limited instructors, please schedule well in advance.

### ***Rapid Intervention Teams (RITC)***

**FSC:** 0270

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up, Fire Ground Support (ELFG), or Bucks Basic Academy

**Description:** This program will prepare fire department personnel for implementation of a stand-by rescue team at structure fires and certain other especially hazardous incidents. The course content relies heavily on the successful experiences of departments that have implemented and utilized the concept.

### ***Rapid Intervention Team Advanced Training***

**FSC:** 0770

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF), or Bucks Basic Academy, or Firefighter I, and Rapid Intervention Team Basic Training

**Description:** This course will review the basic RIT Team Exercises including size-up, new techniques for locating and removing trapped and injured fire fighters, information regarding recent fire fighter fatalities, and recent RIT survival accounts, as well as current RIT developments. Also included is a review of forcible entry techniques, including forcible entry equipment with special emphasis on building collapse.



### ***Rapid Intervention Team Basic Training***

**FSC:** 0760

**Hours:** 16.0 (*Lecture: 12.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF), or Bucks Basic Academy, or Firefighter I, and Rapid Intervention Teams (RITC)

**Description:** This course is designed to provide fire fighters with the knowledge and skill objectives to safely perform rescue techniques to remove trapped or lost fire fighters during deteriorating suppression activities. Included in this course: RIT Team roles and responsibilities, evaluation of case studies, function during suppression activities, lifting and moving techniques, extrication support needs, team building skills, size-up techniques, and structure layout. The fire fighter will also participate in “live” scenario-based evaluations involving a down/trapped fire fighter.

### ***Rapid Intervention Team Refresher***

**FSC:** 0761

**Hours:** 8.0 (*Lecture: 2.0hrs / Lab: 6.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter (ELIF), or Bucks Basic Academy, or Firefighter I, and Rapid Intervention Team Basic Training

**Description:** This course is designed to review specialized conditions and techniques used by Rapid Intervention Teams (RIT). This course is for fire fighters who have had previous RIT training and wish to practice and enhance their skills. Included in this course will be a review of the initial RIT Team roles and responsibilities, as well as any updated information regarding RIT standards. The fire fighter will also participate in “live” scenario-based evaluations involving a down/trapped fire fighter.

### ***Recruitment and Retention Seminar***

**FSC:** 1010

**Hours:** 8.0 (*Lecture: 8.0hrs / Lab: 6.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This class is for both administrative and line officers as well as those individuals who are responsible to bring new members in the fire department. This course will provide some of the techniques to successful recruitment and retention programs that have shown a proven track record.

### ***Rehabilitation for Firefighters Working in Emergency Environments***

**FSC:** 0669

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course is designed for fire and emergency medical personnel who are responsible for establishing and operating a rehabilitation area for firefighters and emergency service responders at emergency environments. The course will deal with how to establish and operate a rehabilitation center for emergency providers who are operating at an emergency event.



### ***Residential Fire Sprinklers for Single Family Dwellings***

**FSC:** 1009

**Hours:** 7.0 (*Lecture: 7.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This class will provide the public official with a basic understanding of how residential sprinklers are listed and operate, the pipe, valves, and devices that are required, and some of the design requirements for an NFPA 13D compliant installation. Qualification of contractors, plan review, and acceptance testing will also be discussed.

### ***Responding to Utility Emergencies: Natural Gas***

**FSC:** 0623

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This program is designed to increase general awareness of natural gas at the scene; provide responders with specific safety skills to recognize and identify hazards and develop proper attitudes when responding to natural gas emergencies. This course will address the hazards, risks, response and players (utility and public service) involved in responding to emergencies involving natural gas.

### ***Responding to Utility Emergencies: Electrical***

**FSC:** 0618

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This program is designed to increase general awareness of electricity at the scene; provide responders with specific safety skills to recognize and identify hazards and develop proper attitudes when responding to electrical emergencies. This course will address the hazards, risks, response and players (utility and public service) involved in responding to emergencies involving electricity.

### ***Rope Rescue Awareness***

**FSC:** 0993

**Hours:** 4.0 (*Lecture: 3.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This program is designed to make students aware of the dangers related to rope rescues, the different disciplines which use rope as a tool for the rescue, the classes available for rope rescue and their content, and equipment used for rope rescue along with the use of rescue knots. The program provides for both classroom and hands on training. The student will be able to tie a variety of fire service knots and apply them to various rescue equipment. Students will go through a PowerPoint program and video to help them more understand the risks related to rope and other rescues, safety procedures, examples of where trained teams have worked well and saved lives.



**\*\*\*Gear Requirements for Rope Training Programs:\*\*\***

Helmet with chin strap, clean leather gloves, eye protection, work or hiking boots, knee pads if possible, outdoor work clothing or coveralls appropriate for weather conditions. TURN OUT GEAR IS NOT ACCEPTABLE. Students may supply additional personal or department equipment, but all such equipment is subject to inspection and/or rejection by the instructors prior to use.

***Rope Technical Rescuer at the Awareness & Operations Level – NFPA 1006***

**FSC:** 1431

**Hours:** 32.0 (Lecture: 16.0hrs / Lab: 16.0hrs)

**Prerequisites:** Age 16 and up

**Gear:** Helmet with Chin Strap, Work Clothes, Work Shoes, Leather Gloves.

**Text Book:** Jones & Bartlett Rope Rescue Techniques Principles & Practices 5<sup>th</sup> Edition

**Description:** This program designed to evaluate the student's skills in cognitive and psychomotor exercises so that they will receive professional certification upon completion of the program, if they successfully meet the minimum requirements of testing. All testing is based on current NFPA 1006 Standard for Rescue Technician Professional Qualification. Students should have prerequisite knowledge of technical rescue skills obtained through previous training and real-life experience.

***Rope Technical Rescuer at the Technician Level – NFPA 1006***

**FSC:** 1434

**Hours:** 24.0 (Lecture: 4.0hrs / Lab: 20.0hrs)

**Prerequisites:** Age 18 and up, Rope Technical Rescuer Awareness & Operations Level

**Gear:** Helmet with Chin Strap, Work Clothes, Work Shoes, Leather Gloves.

**Text Book:** Jones & Bartlett Rope Rescue Techniques Principles & Practices 5<sup>th</sup> Edition

**Description:** This program is designed to enhance the student's ability to perform critical skill sets to meet the intent of NFPA 1006 and 1670 Rope Rescue Technician in the field of technical rescue. During this course, students will review rope rescue systems, application theories, and high angle challenges to accurately and safely execute the skill sets required for professional certification. Topics include: rescue incident management, technical vs. non-technical rescue considerations, rescue strategies and tactics, resource management, patient access and removal strategies and tactics, hazard identification and control, specialized rescue equipment identification and application, patient removal techniques and selection criteria, basic patient care, packaging, and removal, highline construction and operation, and applicable OSHA and NFPA laws and standards. This course is designed for the experienced rescuer with a strong working knowledge of technical rescue in accordance with NFPA 1006 and 1670.



**\*\*\*Gear Requirements for Rope Training Programs:\*\*\***

Helmet with chin strap, clean leather gloves, eye protection, work or hiking boots, knee pads if possible, outdoor work clothing or coveralls appropriate for weather conditions. TURN OUT GEAR IS NOT ACCEPTABLE. Students may supply additional personal or department equipment, but all such equipment is subject to inspection and/or rejection by the instructors prior to use.

***Rope / High Angle Rescue: Adverse Conditions***

**FSC:** 0350 **Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Rope Technician Training

**Description:** The students will be re-introduced to the basics during adverse conditions (darkness, humidity, temperature, terrain), knot tying, basic repel tie off, ascend, change ropes, self-rescue, involving low angle evacuation, vertical raise and lower, and English reeves. While not teaching patient care, i.e. medical treatment, this program will provide those rescue personnel with no formal medical training with a strong orientation to patient related rescue. This course places emphasis upon the development of knowledge and skills used by rescue personnel to achieve a safe and efficient vehicle rescue operation. This course is conducted at night; special lighting equipment is required.

***Rope / High Angle Rescue Rigging Practical***

**FSC:** 0342 **Hours:** 8.0 (*Lecture: 2.0hrs / Lab: 6.0hrs*)

**Prerequisites:** Age 18 and up, Rope / High Angle Rescue II

**Description:** Students in this course will be reintroduced to the basics of rigging for high-angle operations. Students will review critical angles, catenary angles and loads, advanced vertical rigging, anchors and tie backs, artificial high-points, and rigging of a stokes basket for vertical lifting and lowering operations. This program offers extensive hands-on time through integrated exercises in order to build proficiency.

***Ropes and Knots***

**FSC:** 0346 **Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This class will teach the fire fighter how to identify and tie basic fire service knots and how to apply the correct knot to lift and lower fire ground equipment.

***Ropes and Rigging Practical***

**FSC:** 0348 **Hours:** 3.0 (*Lecture: 1.0hrs / Lab: 2.0hrs*)

**Prerequisites:** Age 16 and up, Basic Rigging for Rope Rescue (ROBR)

**Description:** This program is designed to reinforce lessons learned from previous ropes and rigging classes through the use of controlled practical scenarios. The student must be able to tie a variety of fire service knots and apply them to various rescue equipment.



### ***Ropes and Rigging Refresher***

**FSC:** 0349

**Hours:** 6.0 (*Lecture: 4.0hrs / Lab: 2.0hrs*)

**Prerequisites:** Age 16 and up, Basic Rigging for Rope Rescue (ROBR)

**Description:** This course reviews basic fire/rescue service knots and the use of specialized rope rescue equipment. Emphasis is placed on scene and rescuer safety, mechanical advantages and belay systems, and victim packaging and removal. Lessons will be reinforced through integrated rescue exercises.

### ***Rowhome / Townhome Firefighting***

**FSC:** 0853

**Hours:** 16.0 (*Lecture: 16.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up,

**Description:** Through classroom sessions this course will give the experienced firefighter the necessary information needed to safely function in the suppression activities associated with row-home and town-home fire emergencies. Topics such as fire suppression strategies and tactics, building construction concerns, and fire spread probabilities for row-homes and town-homes are covered.

### ***Rural Fireground Water Movement (RFWM)***

**FSC:** 0625

**Hours:** 16.0 (*Lecture: 6.0hrs / Lab: 10.0hrs*)

**Prerequisites:** Age 16 and up,

**Description:** This course instructs the student in the basic methods of water movement in the rural area for firefighting. Tank trucks and large diameter hose are utilized. Safe, efficient and recommended methods are discussed, demonstrated, and practiced.

### ***Salvage and Overhaul Refresher***

**FSC:** 0276

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 14 and up, Exterior Firefighter, or Bucks Basic Academy

**Description:** This course will review the techniques used for preventing damage during and after a fire situation through folding and using tarps. In addition, locating and extinguishing concealed fires will be addressed with proper overhaul procedures.

### ***SCBA Emergencies and Firefighter Self Rescue***

**FSC:** 0842

**Hours:** 8.0 (*Lecture: 4.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Academy, or FF 1

**Description:** This program offers an extreme challenge to the experienced firefighter. SCBA failure is any firefighter's worst nightmare. This course provides the student the knowledge and skills to confidently manage the dangers and hazards associated with SCBA failure or limitations. Topics include: regulator failure, entanglement and disorientation, buddy breathing, regulator changeover, as well as, maneuvering through a challenging maze configuration. All evolutions will be conducted in live smoke conditions. The student must have prior knowledge and skills in the advanced use of SCBA to participate in this training session.





### ***SCBA Refresher***

**FSC:** 0823

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 14 and up, Exterior Firefighter, or Bucks Basic Academy, or FF 1

**Description:** This program gives the students who use SCBA as a first responder an opportunity to review key points in SCBA use. Participation in practical exercises will be used to test the student's skill and knowledge.

### ***Scene Preservation for the First Responder (SPFR)***

**FSC:** 0850

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** Provides participants with basic understanding of access and control of evidence that may be encountered at a fire scene. This course will also address the legal aspects of evidence preservation, personal safety issues, on-scene conduct, and documentation requirements for emergency responders.

### ***Search and Rescue Refresher***

**FSC:** 0589

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 14 and up, Exterior Firefighter, or Bucks Basic Academy, or FF 1

**Description:** This course reviews primary and secondary search procedures for structure during fire situations. Victim removal techniques will also be addressed. Participation in practical exercises will be used to test the student's skill and knowledge.

### ***Solar Panel Awareness for the Fire Service***

**FSC:** 0381

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course is intended for Emergency Responders, as well as, other private or municipal agencies. This course is an awareness level program covering system types, code compliant installations, associated hazards, and safe work practices near solar PV systems. The course will introduce students to solar PV system operations, components, design and recommended practices.

### ***Spill and Leak Control***

**FSC:** 0107

**Hours:** 8.0 (*Lecture: 6.0hrs / Lab: 2.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Operations

**Description:** Through classroom sessions and practical fieldwork, this course will give the student the ability to function safely and effectively in an area exposed to hazardous materials spills as they relate to their workplace. After successful completion, the student will train in accordance with 29 CFR 1910.120 and NFPA 472. Subjects to be covered include personal protective equipment, Containment equipment and techniques, decontamination and integrated exercises.



### ***Sprinklers and Standpipes***

**FSC:** 0538

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 16 and up, Exterior Firefighter, or Bucks Basic Academy

**Description:** This course introduces the student to workings of sprinkler and standpipe systems. The firefighter will learn how these two systems work together to control a fire situation. The lessons learned can be applied to other training situations.

### ***Strategy and Tactics Command Officer***

**FSC:** 0175

**Hours:** 16.0 (*Lecture: 16.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Academy, or Firefighter 1, and Introduction to Fire Officership (INFO), or Equivalent

**Description:** This course teaches the student to operate at all levels of management, from the firefighter to the incident commander. Topics include: size-up techniques, tactical benchmarking, progress assessment, command & control, action plan development, and resource management considerations.

### ***Strategy and Tactics for Initial Company Officer (STICO)***

**FSC:** 0975

**Hours:** 16.0 (*Lecture: 16.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up, Decision Making for Initial Company Operations (DMICO)

**Description:** Strategy and Tactics for Initial Company Operations is designed to develop the management skills needed by Company Officers (CO's) to accomplish assigned tactics at structure fires. This course was developed for newly appointed officer or firefighters who have acting CO responsibilities, but it would provide an excellent review for experienced officers.

### ***Structure Burn Session (SBS)***

**FSC:** 0600

**Hours:** 16.0 (*Lecture: 4.0hrs / Lab: 12.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Academy, or FF 1

**Description:** This course will provide the student with a review and application of the techniques used in safe firefighting practices in an actual structural fire environment. Emphasis is placed on safety for both interior and exterior operations.

### ***Structural Collapse: Level I (SCOA)***

**FSC:** 0744

**Hours:** 3.5 (*Lecture: 3.5hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course is designed to familiarize students with operations at the scene of a structure collapse so they may be able to function at the initial stages of a structure collapse operation, identify and mitigate hazards, recognize the need for assistance, and perform as an integral part of the overall operation once technical rescue teams are on site.



### ***Structural Collapse Technical Rescuer at the Awareness & Operations Level***

**FSC:** 1442

**Hours:** 24.0 (*Lecture: 12.0hrs / Lab: 12.0hrs*)

**Prerequisites:** Age 18 and up

**Gear:** Helmet with Chin Strap, Work Clothes, Work Shoes, Leather Gloves, Eye Protection.

**Text Book:** FEMA US & R Response System, Structural Collapse Technician

**Description:** This program is designed to enhance the student's ability to perform critical skill sets to meet the intent of NFPA 1006 Chapter six (6) During this course, students will review collapse extrication theories, shoring techniques.

Topics include: rescue incident management, collapse types and building construction considerations for light frame collapsed structures, extrication strategies and tactics, resource management, stabilization and shoring systems for light frame construction collapse operations, atmospheric monitoring and ventilation methods, search & rescue techniques, collapse equipment identification and application for light frame construction, patient triage, patient removal methods and selection criteria, basic patient care, packaging, and removal, basic and advanced shoring techniques, and applicable OSHA and NFPA laws and standards.

### ***Structural Collapse Refresher***

**FSC:** 0691

**Hours:** 8.0 (*Lecture: 3.0hrs / Lab: 5.0hrs*)

**Prerequisites:** Age 18 and up, Structural Collapse Awareness & Operations

**Description:** This course gives the fire departments and rescue personnel a refresher base of knowledge and skills necessary to operate effectively at incidents involving the collapse of light frame and heavy wall structures. Students are given extensive hands-on instruction in structure assessment, emergency shoring and stabilization, and breaching light building materials.

### ***Structural Fire Rescue (SFR)***

**FSC:** 0325

**Hours:** 16.0 (*Lecture: 5.0hrs / Lab: 11.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Academy, or FF 1

**Description:** This course will instruct the student in the methods of rescuing victims from buildings under fire conditions. Topics to be discussed and practiced are search procedures, victim handling techniques, and methods of removing victims from above and below grade situations.

### ***Structural Suppression Refresher***

**FSC:** 0312

**Hours:** 8.0 (*Lecture: 4.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Academy, or FF 1

**Description:** Through classroom sessions and structural suppression exercises, this course gives the student the ability to enhance their fire suppression skills. The student will identify safety measures necessary to operate effectively as a member of an interior suppression team. Subjects to be covered include site safety procedures, search & rescue techniques, attack & ventilation strategies, hose line advancement, and suppression techniques through integrated exercises.



### ***Tanker Water Supply (TAWS)***

**FSC:** 0415

**Hours:** 16.0 (*Lecture: 12.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course will provide instruction for supplying the fire ground with water from tank trucks as the main source of water. Topics covered include tanker construction, water supply sources and set up, water flow requirements, tanker shuttle systems, and safe and efficient operations.

### ***Technical Decontamination***

**FSC:** 1075

**Hours:** 8.0 (*Lecture: 4.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up, Hazardous Materials Operations

**Description:** The goal of this program shall be to provide the operations level responder assigned to perform technical decontamination at hazardous materials/WMD incidents with the knowledge and skills to safely and effectively perform the tasks in accordance with NFPA 6.4.1.2.2.

### ***Technical Rescue Awareness***

**FSC:** 0577

**Hours:** 8.0 (*Lecture: 5.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This course is designed to teach the student how to work around a technical rescue scene and assist the technical rescue team in performing their duties. Topics include patient packaging, identifying confined space, trench rescue, and structural collapse terms and equipment.

### ***Technical Rescue Refresher***

**FSC:** 0697

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 18 and up, Technical Rescue Training

**Description:** This program is designed to enhance the student's ability to perform critical skill sets in the field of technical rescue. During this course, students will review technical rescue theories, techniques, and challenges to accurately and safely execute the skill sets required for professional certification. Topics include: scene management, mechanical advantage systems, rope management, anchor systems, rescue knots, size-up considerations, hazard control, and patient care. This course is designed for the experienced rescuer with a strong working knowledge of technical rescue in accordance with NFPA 1006 and 1670.

### ***Test Taking 101***

**FSC:** 0949

**Hours:** 3.5 (*Lecture: 3.5hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 14 and up

**Description:** This course is designed to provide students with information that will assist them in taking a variety of tests in fire and emergency services. Topics will include: reasons for evaluations, building testing tools, oral testing, written testing, multiple choice testing, true/false testing, matching tests, common pitfalls, and trending.



### ***Thermal Imaging Camera Seminar***

**FSC:** 0863

**Hours:** 3.0 (*Lecture: 3.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This program is designed to enhance the student's understanding of thermal imaging technology. Various operation and application strategies will be presented in this program. The student will understand technology limitations, thermal imaging "generation changes", instructional challenges, as well as technological advancements in the field of thermal imaging.

### ***Traffic Incident Management (TIM)***

**FSC:** 0214

**Hours:** 4.0 (*Lecture: 3.5hrs / Lab: 0.5hrs*)

**Prerequisites:** Age 16 and up

**Description:** This National TIM Responder Training Program establishes the foundation and promotes consistent training for all responders to incident involving operations on or near a highway. The PA – TIM objectives primarily target operations and special risks to personnel performing fire, rescue and EMS functions. This program examines the risks and provides nationally recognized actions to minimize/reduce those risks.

### ***Trench Rescue Introduction***

**FSC:** 0101

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 16 and up

**Description:** This course will give the responder the knowledge of how to respond to a trench collapse emergency. The course will point out the hazards associated with trench collapse and actions that the responder can take prior to the arrival of the rescue team. Topics include case studies, collapse types, hazard control and identification, shoring overview, and initial response actions.

### ***Trench Technical Rescuer at the Awareness & Operations Level – NFPA 1006***

**FSC:** 1452

**Hours:** 24.0 (*Lecture: 10.0hrs / Lab: 14.0hrs*)

**Prerequisites:** Age 18 and up

**Gear:** Helmet with Chin Strap, Work Clothes, Work Shoes, Leather Gloves, Eye Protection.

**Text Book:** Jones & Bartlett Trench Rescue Awareness, Operations, Technician 4<sup>th</sup> Edition

**Description:** During this course, students will review trench extrication theories, basic shoring techniques, and challenges to accurately and safely execute the skill sets required for professional certification. Topics include: rescue incident management, trench configurations and soil types, extrication strategies and tactics for inline trench rescue operations, resource management, stabilization and shoring systems for inline trench rescue operations, hazard identification and control, shoring panel construction, technical rescue equipment identification and application, patient removal methods and selection criteria, basic patient care, packaging, and removal, basic and advanced shoring techniques, and applicable OSHA and NFPA laws and standards.



### ***Trench Technical Rescuer at the Technician Level – NFPA 1006***

**FSC:** 1454

**Hours:** 24.0 (*Lecture: 8.0hrs / Lab: 16.0hrs*)

**Prerequisites:** Age 18 and up, Trench Technical Rescuer Awareness & Operations Level

**Gear:** Helmet with Chin Strap, Work Clothes, Work Shoes, Leather Gloves, Eye Protection.

**Text Book:** Jones & Bartlett Trench Rescue Awareness, Operations, Technician 4<sup>th</sup> Edition

**Description:** During this course, students will review trench extrication theories involving and intersecting trench, shoring techniques for intersecting trenches, and challenges to accurately and safely execute the skill sets required for professional certification. Topics include: rescue incident management, trench configuration and soil types, extrication strategies and tactics for intersecting trenches, resource management, stabilization and shoring systems for intersecting trenches, and advanced shoring techniques, and applicable OSHA and NFPA laws and standards. This course is designed for the experienced rescuer with a strong working knowledge of technical rescue in accordance with NFPA 1006 and 2500.

### ***Trench Rescue Operations Refresher***

**FSC:** 0914

**Hours:** 8.0 (*Lecture: 2.0hrs / Lab: 6.0hrs*)

**Prerequisites:** Age 18 and up, Trench Rescue Operations I, Trench Rescue Operations II

**Description:** This course reviews best rescue practices for trench rescue emergencies. This course was designed for the experienced rescuer to review the latest equipment, shoring techniques, and safe work practices designed for the rescuer to safely operate at a trench collapse emergency. In this course, the student will be challenged with technical problems, such as: rescue obstructions, victims trapped with heavy large objects, construction and use of an on-site built trench box, double side-wall collapse situations, and incident termination. This course presents several action alternatives and tactical probabilities associated with trench rescue efforts. This course addresses excavation requirements as defined in the Code of Federal Regulations (CFR) 1926.651, 1926.652, and in part the skill competencies in NFPA 1006.

### ***Truck Company Operations I (TRCO)***

**FSC:** 0209

**Hours:** 16.0 (*Lecture: 12.0hrs / Lab: 4.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Fire Academy, or FF 1

**Description:** This course will introduce the student to the basic duties of a truck company including hand and power tool operation, search and rescue, and ventilation. Truck Company support to the Engine Company is also covered.





### ***Truck Company Operations II (ATRC)***

**FSC:** 0208

**Hours:** 16.0 (*Lecture: 4.0hrs / Lab: 12.0hrs*)

**Prerequisites:** Age 18 and up, Truck Company Operations I

**Description:** This course is designed for the fire fighter to apply and refine his/her knowledge of truck company operations. Topics include: vehicle placement, forcible entry, search and rescue, aerial operations, building construction, fire travel, and ventilation.

### ***Truck Company Operations Refresher***

**FSC:** 1015

**Hours:** 8.0 (*Lecture: 2.0hrs / Lab: 6.0hrs*)

**Prerequisites:** Age 18 and up, Truck Company Operations I

**Description:** Truck Companies, regardless of whether they arrive on an aerial device, squad, or engine, are the “combat engineers” of fire attack operations at high-rise fires. This skill enhancement course is designed for the experienced truck company firefighter. Topics include: organizing the delivery of truck company services, operation of key equipment, advanced ventilation techniques, large, multi-floor search and rescue maneuvers, and other related truck company operations.

### ***Vehicle Fires and Other Emergencies (VFOE)***

**FSC:** 0308

**Hours:** 16.0 (*Lecture: 10.0hrs / Lab: 6.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Fire Academy, or FF 1

**Description:** This course will inform the student of the hazards encountered at vehicle fires and other emergencies. Proper strategy and tactics are covered as well as the charges that have occurred in vehicle design that have an effect on the way vehicle fires must be handled to ensure safety of responders and the public. Hands-on training will allow the student an opportunity to practice vehicle firefighting tactics.

### ***Vehicle Fires Practical***

**FSC:** 0152

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 18 and up, Interior Firefighter, or Bucks Basic Fire Academy, or FF 1, and Vehicle Fires and Other Emergencies

**Description:** This program is designed to teach the student how to size –up and effectively control and extinguish a fire in a passenger vehicle. Vehicle design, fuel systems and safety systems often impact the fire, these in turn affect the fire fighter, and this program will teach the fire fighter how safely conduct firefighting techniques with the emphasis placed on fire fighter safety.



***Vehicle Rescuer Common Passenger at the Awareness, Operations & Technician Level – NFPA 1006***

**FSC:** 1420 (Training)

**Hours:** 40.0 (Lecture: 16.0hrs / Lab: 24.0hrs)

**FSC:** 1421 (Testing)

**Hours:** 8.0

**Prerequisites:** Age 16 and up, Non-Expired CPR w/ AED, Non-Expired First Aid, Hazardous Materials Awareness Certification, Rope Rescue Training

**Gear:** TOG, or Extrication Gear, Eye Protection.

**Text Book:** Jones & Bartlett Vehicle Rescue & Extrication Principles & Practices Revised 2<sup>nd</sup> Edition

**Description:** This program is designed to enhance the student's ability to perform critical skills sets in the field of technical rescue for incidents involving common passenger vehicles. During this course, students will review scene safety and size up strategies, apply the phases of extrication, vehicle extrication principles and theories, stabilization and extrication techniques, basic patient care and packaging techniques, and managing incident challenges to accurately and safely execute the skill sets required for safe and effective patient extrication. Topics include size-up, scene management, hazard identification and control, stabilization, gaining access, tool selection and operation, patient packaging and extrication, and termination in accordance with NFPA 1006 and 1670. This course is designed for students with a working knowledge of emergency response. This course is designed to prepare a candidate for professional certification testing (written and skills) in accordance with NFPA 1006 Common Passenger Vehicle Technical Rescuer Awareness, Operations, and Technician Levels.

***Vehicle Rescuer Commercial Vehicle at the Awareness, Operations & Technician Level – NFPA 1006***

**FSC:** 1422 (Training)

**Hours:** 24.0 (Lecture: 8.0hrs / Lab: 16.0hrs)

**FSC:** 1423 (Testing)

**Hours:** 8.0

**Prerequisites:** Age 16 and up, Vehicle Rescuer Common Passenger Awareness, Operations, & Technician Level Certification

**Gear:** TOG, or Extrication Gear, Eye Protection.

**Text Book:** Jones & Bartlett Vehicle Rescue & Extrication Principles & Practices Revised 2<sup>nd</sup> Edition

**Description:** his program designed to evaluate the student's skills in cognitive and psychomotor exercises so that they will receive professional certification upon completion of the program, if they successfully meet the minimum requirements of testing. This examination measures the student's skills at the Heavy Vehicle Technical Rescuer Awareness, Operations, and Technician Level and will follow guidelines set forth in accordance with the policies and procedures of Bucks County Community College's Accreditation. Testing is based on current NFPA 1006 Standard, to the Heavy Vehicle Technical Rescuer Awareness, Operations, and Technician Level through the ProBoard.



### ***Vehicle Rescue Refresher***

**FSC:** 0156

**Hours:** 6.0 (*Lecture: 3.0hrs / Lab: 3.0hrs*)

**Prerequisites:** Age 18 and up, Basic Vehicle Rescue Technician or Equivalent

**Description:** This course will review the phases of extrication concerns with vehicle technology and patient considerations. This program is designed to review strategic and tactical considerations closely associated with extrication emergencies. This course placed emphasis upon the review and enhancement of the student's knowledge level and skills necessary to achieve a safe and efficient vehicle operation.

### ***Vehicle Rescue Safety Update***

**FSC:** 0862

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up, Basic Vehicle Rescue Technician or Equivalent

**Description:** This program contains information on recent vehicle safety technology upgrades, which may pose concerns with extrication efforts. This course covers basic vehicle safety and technology changes at an awareness level only. Safety features such as: air bag systems, seat belt systems, fuel system changes, safe work zones, vehicle construction materials, and passenger compartment upgrades. Changes to size-up, extrication techniques, and resource needs will also be presented in this program.

### ***Ventilation Practical Refresher***

**FSC:** 0442

**Hours:** 3.0 (*Lecture: 2.0hrs / Lab: 1.0hrs*)

**Prerequisites:** Age 16 and up, Exterior Firefighter, or Bucks Basic Academy

**Description:** This class will review lessons learned in previous fire training exercises and reinforce safety issues and concerns that can occur when ventilating buildings. This program will teach the student new tactics for ventilating fires in a building.

### ***Ventilation Practices (TRVP)***

**FSC:** 0310

**Hours:** 16.0 (*Lecture: 8.0hrs / Lab: 8.0hrs*)

**Prerequisites:** Age 16 and up, Exterior Firefighter, or Bucks Basic Academy

**Description:** This course will cover what ventilation is, why we do it, and how to obtain proper ventilation. Horizontal and vertical ventilation will be discussed along with the methods including natural and mechanical. Positive pressure ventilation will be introduced and demonstrated. Ventilation as a defensive operation will also be talked about including trench cutting. The course will have the students involved in hands-on exercises performing the skills listed on a mock roof and ventilating a building mechanically that is charged by a Roscoe machine.



***Volunteer Retention and Recruitment: Problems and Solutions (VFSR)***

**FSC:** 0215

**Hours:** 4.0 (Lecture: 4.0hrs / Lab: 0.0hrs)

**Prerequisites:** Age 16 and up

**Description:** This course's targeted audience is administrative and line officers of volunteer fire departments, persons serving as recruitment officers or on recruitment/retention committees. Persons serving in similar capacities in other volunteer emergency service organizations may benefit from attending. The course examines the results of a March 1993 conference at the National Fire Academy between 16 volunteer fire service representatives from around the country concerning retention and recruitment issues. Students will have the opportunity to examine these results and their implications, to share experiences, and to begin the process of applying the course content to conditions in their own departments.

***Water Rescue & Emergency Response (WRER) PA. Fish & Boat.***

**FSC:** 0446

**Hours:** 16.0 (Lecture: 8.0hrs / Lab: 8.0hrs)

**Prerequisites:** Age 18 and up

**Gear:** US Coast Guard approved PFD, water rescue helmet & appropriate clothing for water & weather conditions

**Description:** Planning for water emergencies, dynamics of moving water, medical conditions, personal safety & fundamental rescue techniques (self & shore based).

***Water Rescue for the First Responder Awareness Level (WRFR-A)***

**FSC:** 0580

**Hours:** 3.0 (Lecture: 3.0hrs / Lab: 0.0hrs)

**Prerequisites:** Age 18 and up

**Description:** This course will provide information that the first arriving emergency services personnel will need at a water incident to recognize risks and dangers associated with water emergencies and take actions to ensure their safety. The course will address scene assessment, activation of emergency response system, evaluation of potential and existing water hazards, scene management, rescue vs. recovery, and personal safety measures.

***Water Supply and Pump Connections***

**FSC:** 0690

**Hours:** 3.0 (Lecture: 1.5hrs / Lab: 1.5hrs)

**Prerequisites:** Age 16 and up, Fire Ground Support, or Bucks Basic Academy

**Description:** This 3-hour course reviews the types of water supplies and how to maintain them. Topics covered include positive & negative water supplies and effective techniques for establishing water supplies.



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***Winch Operations***

**FSC:** 0590

**Hours:** 3.0 (*Lecture: 1.5hrs / Lab: 1.5hrs*)

**Prerequisites:** Age 18 and up

**Description:** Through lecture and hands-on integrated training exercises, this course will assist the student with safe and effective operation of a winch. Key safety elements will provide risk reduction strategies for maintaining a safe and effective rescue ground. This course was developed for rescue/extrication personnel exposed to winch operations for the purpose of recovery and stabilization. This course reviews strategic and tactical considerations for winch operations during an incident, inspection points for a comprehensive preventive maintenance schedule, and critical safety elements. Through integrated training scenarios, the student will implement lesson objectives.

***Weapons of Mass Destruction (WMD) Awareness Level***

**FSC:** 1005

**Hours:** 4.0 (*Lecture: 4.0hrs / Lab: 0.0hrs*)

**Prerequisites:** Age 18 and up

**Description:** This course is designed for first responders and other personnel who are likely to be the first to arrive on the scene of WMD incident. It focuses on the basics for using and dispersing chemical agents, biological agents, radiological agents, and explosive devices. The possible health effects, hazard identification and proper notification procedures, and chemical and physical properties will be discussed in this program.



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**Miscellaneous Classes**

Bucks County Community College also offers several local level programs that are not regularly run. This may be due to small targeted audiences, limited approved instructors, length of course, or not requested by departments. Please be aware you will likely need to be flexible in scheduling dates and may need special equipment or props for these programs. Below is a list of these limited programs, should your department have any interest in running any of these contact your local Field Director for course and scheduling information.

<b>FSC</b>	<b>Course Title</b>	<b>FSC</b>	<b>Course Title</b>
0335	Aircraft Crash Rescue Short Course	0562	G-402 ICS Overview for Executives
1043	ATV / UTV Wilderness Search & Rescue	0576	G-557 Rapid Needs Assessment
0636	Class A Foam Awareness	0336	G-2300 Intermediate EOC Operations Functions
0985	Compressed Air Foam Systems	0834	Hazard Communications HAZCOM
0926	Convenience Store & Fast Food Fires	0117	Hazard Materials Defensive Practice
0164	Dwelling Fire Operations	0582	High Rise Firefighting Awareness
0606	Elevated Rope Rescue Basics	0610	Hotel & Motel Firefighting
0820	Emergency Response Guidebook Training	0714	Initial Response Large Structures Strategy & Tactics
0693	Engine & Truck Co. Operations for High Rise Fires	0382	L-146 Homeland Security Exercise & Evaluation Program
0836	Engine Company Operations at High Rise Fires	0411	Mass Casualty Incident Review
0922	Fire Code Enforcement Seminar	0730	New Vehicle Technology
0667	Fire Ground Operations	0131	Orientation for Railroad Emergency
0723	Fire Investigation Practices	0877	Personal Protective Equipment
0507	Foam Firefighting Basic	0588	Positive Pressure Ventilation Refresher
0508	Foam Firefighting Technician	0947	ServSafe Certification
0383	G-191 ICS/EOC Interface Workshop	0989	The Art of Reading Smoke
0384	G-235 Emergency Planning	0937	Tower Rescue
0399	G-205 Recovery from Disaster: The Local Government Role	0837	Truck Company Operations at High Rise Fires
0397	G-288 Local Volunteer & Donations Management	0593	Wilderness Rescue
1055	L-105 Basic Academy Public Information Basics	0661	Wilderness S&R Awareness
0320	G-291 Joint Information Systems	0818	Wilderness S&R Advanced Grid
0387	G-386 Mass Fatalities Incident Response	0817	Wilderness S&R Basic Grid Team
0409	G-393 Mitigation for Emergency Managers	0816	Wilderness S&R Search Management
		0815	Wilderness S&R Responder
		0846	Wilderness S&R Crew Leader





## Local Level Course Application Information

**Purpose:** Any organization wishing to schedule a class with Bucks County Community College, Department of Public Safety Training and Certification, need to submit the Local Level Course Application. Below is the process in submitting this application to the community College.

**Directions:** Below is the information that needs to be placed on the local level course application when it is submitted. The numbers in these directions correspond to the numbers on the attached course application.

\* Course Title

a. This is the title of the course as it appears in the State Catalog. It also appears on the list of eligible local level classes.

\* Code (FSC)

a. This is the first 4 digits of the class Code (FSC) as it appears in the State Catalog. It also appears on the list of eligible local level classes. The last 3 digits for the section will be assigned by the office staff.

\* Hours:

a. This is the total class hours. This information can be found in the State Catalog or on the list of eligible local level classes.

\* Starting Date:

a. This is the first day of class

\* End Date:

a. This is the last day of class

\* Starting time:

a. This is the start time for the first day of class

\* Ending Time:

a. This is the ending time for classes

\* Indicate any other dates / times this course will occur:

a. These are the list of all dates the class will run if longer than one day or night  
i. All classes longer than 3-8 hours will need additional dates listed



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**2025-2030 Local Level Emergency Services Training Catalog**

\* Payment Information

a. Organization requesting the course needs to check the selection that applies

i. All course applications that are submitted will be vetted for Payment information.

1. If department has a Training Membership program the hours will be deducted from that program.

2. If a department does not have a training membership program they will be billed per the pay by program rate of \$35.00 per class hour.

a. Invoice for class will be sent to the hosting agency and primary contact.

**ii. If the department has a training membership program the contact should be the person and organization listed in this area of the application. The organization needs to match the organization that has purchased the training membership.** This will assist with the billing process and prevent any mistaken invoices.

iii. All Payment can be made to Bucks County Community College.

\* This is the Primary contact information for the organization hosting the program.

i. All information needs to be submitted in this section. This information will be used to contact the Primary Contact Person If the college or instructors have any questions. This will also be used to communicate assigning of instructors.

\* Course Location (Include, street, Cite State, Zip)

a. This is the physical location the course will be held

i. This location can be different than the organizations sponsoring the program.

\* Is Live Fire Being Used

a. This are needs to be completed if any live fire training will be occurring

i. The PA Live Fire Training Policy will need to be followed and this may require additional paperwork.

\* Proposed Instructor

a. If the organization sponsoring the program has an instructor they would like to use for the class, list their name here.

i. Bucks County Community College will do their best to honor this request, all instructors need to be vetted against the PSFA approved instructional list, along with the Bucks County Community College list.

b. If an organization does not have an instructor on will be assigned to the program by Bucks County Community College.

i. Communication will be made with the Primary Point of Contact in regards to this assignment.



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\* Signature of Requesting Agency

- a. This is the person that is authorized by the department to submit requests for courses. This should be the same individual in the Contact area.

**Directions for Submitting Completed Form:**

1. Forms can be submitted electronically to the following email.  
\*\*\*This is the preferred method for submission\*\*\*
  - a. [PSSTATE@bucks.edu](mailto:PSSTATE@bucks.edu)
2. Forms can be submitted via fax to:
  - a. 215-788-4906
3. Forms can be submitted via US Mail:

Bucks County Public Safety Training  
275 Swamp Road  
Cottage 1  
Newtown, Pennsylvania 18940





**Bucks County Community College**  
Department of Public Safety Training and Certification  
**LOCAL LEVEL COURSE APPLICATION**

1760 South Easton Road  
Doylestown, PA 18901  
Ph. 215.685.4888  
Fax 215-497-8721

<b>To be completed by organization requesting the course</b>		
<b>Course Title:</b>	<b>Code (FSC):</b>	<b>Hours:</b>
<b>Starting Date:</b>	<b>Ending Date:</b>	
<b>Starting Time:</b>	<b>Ending Time:</b>	
<b>Indicate any other date / times this course will meet:</b>		
<b>Course Hosting Agency (Address), Payment Information, and Point of Contact:</b>		
<b>Agency Name:</b>	<b>Agency ID# (TMP Dept.):</b>	
<b>Contact Person:</b>	<b>Mobile Telephone No:</b>	
<b>Address Line 1:</b>	<b>Day Telephone No.:</b>	
<b>Address Line 2:</b>	<b>Evening Telephone No.:</b>	
<b>City, State, Zip:</b>	<b>E-mail Address:</b>	
<input type="checkbox"/> Check (# _____)	<input type="checkbox"/> VISA or <input type="checkbox"/> MasterCard	<input type="checkbox"/> Bucks County Dept.
<input type="checkbox"/> Organization P.O. (# _____)	<i>All Credit Card payments must complete and submit a Credit Card Authorization Form, which can be found on our website.</i>	<input type="checkbox"/> TMP Dept.
<b>Course Location (Address) and Point of Contact:</b>		
<b>Agency Name:</b>	<b>Agency ID# (TMP Dept.):</b>	
<b>Contact Person:</b>	<b>Mobile Telephone No:</b>	
<b>Address Line 1:</b>	<b>Day Telephone No.:</b>	
<b>Address Line 2:</b>	<b>Evening Telephone No.:</b>	
<b>City, State, Zip:</b>	<b>E-mail Address:</b>	
<b>Course Location (include Street, City, State, Zip):</b>	<b>Is "Live Fire" being used?:</b> <input type="checkbox"/> YES <input type="checkbox"/> NO	
	<i>If Live Fire is being used, list the location of the "live fire" evolution below:</i>	
<b>County:</b>		
<b>Name and Address of Proposed Instructor</b>	<b>Instructor Contacted:</b> <input type="checkbox"/> YES <input type="checkbox"/> NO	
<b>Signature of Requesting/Employing Agency Representative (Chief, Training Officer, President, etc.).</b> Signature also attests that Fire Department's Insurance carrier provides accident Insurance and workmen's compensation coverage for the participants.		
<b>Printed Name:</b>	<b>Signature:</b>	<b>Date:</b>
<b>FOR OFFICIAL USE ONLY:</b> This block may be used by BCCC to list Information specific to record keeping needs, such as Instructors, salary, etc.		
<b>Name and Approval of Agency: Bucks County Community College Department of Public Safety Training &amp; Certification</b>		
<b>Instructor(s):</b>	<b>Salary:</b>	<b>Expenses:</b>
<b>FSC (Course/Section):</b>	<b>Class Hours:</b>	<b>Semester:</b>





**Bucks County Community College**  
**Department of Public Safety Training and**  
**Certification**

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Doylestown, PA 18901  
Ph: 215.340.8417  
Fax: 215.343.6794  
[www.bucks.edu/publicsafety](http://www.bucks.edu/publicsafety)

## **Training Membership Programs and Course Costs**

Bucks County Community College (Bucks) offers the following training membership programs to the municipal first responders of the Commonwealth of Pennsylvania. These programs are designed to address the various training needs, as well as, the volume of our customer base. We believe that the concept of offering training program memberships is the most acceptable format to our current business model. Our options address the training needs of the smaller organizations, as well as, the larger grant and specialized mission focused organizations.

In order to continue to take advantage of our training courses and the services we provide to our customers, please review the following training membership program options listed in this document (Pay by the Program, Basic Training, Bronze, Silver, and Gold, Platinum). ***All organizations must select one of the training membership program options listed in this document to continue to receive training through our College.*** Organizations may change their option selection year to year in order to meet specific training needs.

Please review the information and select the option that best meets your organization's educational and fiscal needs. If you would like assistance in selecting a training option, feel free to contact any of our Field Directors. We hope to continue to serve your organization and the thousands of other organizations within the Commonwealth. We will continue to support our growth of services throughout the public safety community.

When you have selected the training option that best serves your organization, please complete the enclosed contract and return it to our Department of Public Safety Training and Certification.

If you have any questions, or need additional information, please contact your Regional Field Director.

Sincerely,

Department of Public Safety Training and Certification





**Bucks County Community College**  
**Department of Public Safety Training and**  
**Certification**

1760 South Easton Road  
Doylestown, PA 18901  
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**Option 1: “Pay by the Program”**

1. Per Program Fee Required: Payment must be received or committed ten (10) business days prior to the first day of class.
  - a. \$55.00 per course for courses less than 3 hours
  - b. \$35.00 per instructional hour per course for courses 3 hours and longer
2. Ten (10) student minimum is required for all training classes; certain training courses have a maximum/minimum student criteria.
3. This program does not include any free onsite certification testing.
4. Obtaining published manuals that are required or recommended for the program will be the responsibility of the student or their sponsoring emergency services organization.
  - a. See the textbook/manual list on our website [www.bucks.edu/publicsafety](http://www.bucks.edu/publicsafety)
5. The hosting organization is responsible for providing the required equipment, supplying all expendable items, and providing an acceptable site (both classroom and hands-on sessions) for all training sessions.

**Option 2: “Basic Training Membership”**

1. Organization **Annual Membership Fee required** (\$1,000.00 per calendar year)
2. No additional registration fee for Bucks courses (This does not include Resident Catalog Courses)
3. Ten (10) student minimum is required for all training classes; certain training courses have a maximum / minimum student criteria to support learning objectives and safety
4. Maximum of one – hundred (100) hours of onsite training courses held at the hosting organization’s facility, per calendar year. Minimum and maximum enrollment parameters apply.
5. Obtaining published manuals that are required or recommended for the program will be the responsibility of the student or their sponsoring agency.
6. The hosting organization is responsible for providing the required equipment, supplying all expendable items, and providing an acceptable site to support both classroom and hands-on sessions for all training programs

**Option 3: “Bronze Membership”**

1. Organization **Annual Membership Fee** required (\$1,400.00 per calendar year, per organization)
2. No additional registration fee for Bucks courses (this **does not** include Resident Catalog Classes).
3. Ten (10) student minimum is required for all training classes; certain training courses have a maximum/minimum student criteria to support learning objectives and safety.







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4. Program includes:
  - a. One (1) Hazmat Awareness National Certification Test (minimum of 15 candidates; maximum 24 candidates) per program
  - b. All other certification testing will have an additional fee assessed
5. Maximum of two-hundred (200) hours of onsite non-certification training courses held at the hosting organization's facility, per calendar year. Minimum and maximum enrollment parameters apply (see option 2, item 3).
6. Obtaining published manuals that are required or recommended for the program will be the responsibility of the student or their sponsoring emergency services organization.
  - a. See the textbook/manual list on our website [www.bucks.edu/publicsafety](http://www.bucks.edu/publicsafety)

The hosting organization is responsible for providing the required equipment, supplying all expendable items, and providing an acceptable site to support both classroom and hands-on sessions for all training programs. *(Note: All associated rental/use fees for off-site locations are the responsibility of the hosting agency.)*

**Option 4: "Silver Membership"**

1. Organization **Annual Membership Fee** Required (\$3,100.00 per calendar year, per organization)
2. No additional registration fee for Bucks Resident Courses at the training facilities.
3. No additional registration fee for Online (Non National Certification) Training Programs
4. Total of ten (10) individual registrations for Virtual / Online National Certification Programs.
5. Ten (10) student minimum is required for all training classes; certain training courses have a maximum/minimum student criteria.
6. One (1) onsite certification test per year (**Does Not** include HMT & Fire Investigator certification) plus one (1) onsite Hazmat Awareness certification test per year.
  - a. **NOTE:** Structural Collapse cannot be delivered in the field, unless a suitable site is available and approved through Bucks. Hazardous Materials Technician & Fire Investigator is not included in this package, if you wish to run this class and the testing contact your field director.
7. Tuition free access to Bucks Regionally Sponsored (Resident Course) Firefighter I or Firefighter II certification challenge tests. Correspondence challenges are no included.
8. Maximum of two-hundred (200) hours of onsite ***non-certification training courses*** held at the hosting organization's facility, per calendar year. Minimum and maximum enrollment parameters apply.
9. Obtaining published manuals that are required or recommended for the program will be the responsibility of the student or their sponsoring emergency services organization.
  - a. See the textbook/manual list on our website [www.bucks.edu/publicsafety](http://www.bucks.edu/publicsafety)





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10. The hosting organization is responsible for providing the required equipment, supplying all expendable items, and providing an acceptable site to support both classroom and hands-on sessions for all training programs. (*Note: All associated rental/use fees for off-site locations are the responsibility of the hosting agency.*)
11. The hosting organization must provide a current membership roster to Bucks.

**Option 5: “Gold Membership”**

1. Organization **Annual Membership Fee** Required (\$4,100.00 per calendar year, per organization)
2. No additional registration fee for Bucks Resident Courses at the training facilities.
3. No additional registration fee for Online (Non National Certification) Training Programs
4. Total of ten (10) individual registrations for Virtual / Online National Certification Programs.
5. Ten (10) student minimum is required for all training classes; certain training courses have a maximum/minimum student criteria.
6. This Program Option includes:
  - a. Two (2) onsite certification tests per year (does include Firefighter I, Firefighter II. Doesn't include Hazardous Materials Technician certification tests)
  - b. One (1) onsite Hazmat Awareness certification test per year (minimum of 15 candidates required) per program
  - c. NOTE: Structural Collapse cannot be delivered in the field, unless a suitable site is available and approved through Bucks. Hazardous Materials Technician is not included in this package, if you wish to run this class and the testing please contact your field director.
7. Tuition free access to Bucks Regionally Sponsored (Resident Course) Firefighter I or Firefighter II certification challenge tests. (Enrollment is on a first come, first serve basis and is limited.)
  - a. **NOTE:** One of the two (2) certification tests may be a Firefighter I or Firefighter II certification test at a testing site approved through Bucks
8. Maximum of two-hundred (200) hours of onsite ***non-certification training courses*** held at the hosting organization's facility, per calendar year. Minimum and maximum enrollment parameters apply.
9. Obtaining published manuals that are required or recommended for the program will be the responsibility of the student or their sponsoring emergency services organization.
  - a. See the textbook/manual list on our website [www.bucks.edu/publicsafety](http://www.bucks.edu/publicsafety)
10. The hosting organization is responsible for providing the required equipment, supplying all expendable items, and providing an acceptable site (both classroom and hands-on sessions) for all training courses.
11. The hosting organization must provide a current membership roster to Bucks.





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**Option 6: “Platinum Membership”**

1. Organization **Annual Membership Fee** Required (\$5,500.00 per calendar year, per organization)
2. No additional registration fee for Bucks Resident Courses at the training facilities.
3. No additional registration fee for Virtual / Online Training Programs and National Certification Programs
4. Ten (10) student minimum is required for all training classes; certain training courses have a maximum/minimum student criteria.
5. This Program Option includes:
  - a. Two (2) onsite certification tests per year (does include Firefighter I, Firefighter II. Doesn't include Hazardous Materials Technician certification tests)
  - b. One (1) onsite Hazmat Awareness certification test per year (minimum of 15 candidates required) per program
  - c. NOTE: Structural Collapse cannot be delivered in the field, unless a suitable site is available and approved through Bucks. Hazardous Materials Technician is not included in this package, if you wish to run this class and the testing please contact your field director.
6. Tuition free access to Bucks Regionally Sponsored (Resident Course) Firefighter I or Firefighter II certification challenge tests. Correspondence challenges are not included in this package.
7. Maximum of two-hundred (200) hours of onsite ***non-certification training courses*** held at the hosting organization's facility, per calendar year. Minimum and maximum enrollment parameters apply.
8. Obtaining published manuals that are required or recommended for the program will be the responsibility of the student or their sponsoring emergency services organization.
  - a. See the textbook/manual list on our website [www.bucks.edu/publicsafety](http://www.bucks.edu/publicsafety)
9. The hosting organization is responsible for providing the required equipment, supplying all expendable items, and providing an acceptable site (both classroom and hands-on sessions) for all training courses.
10. The hosting organization must provide a current membership roster to Bucks.

**Option 7: “Online National Certification Programs”**

1. Organizational Annual Membership Fee Required (\$2,000.00 per calendar year)
2. Total of fifteen (15) individual registrations for virtual / online National Certification programs.





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## **Directions for Submitting your Membership Contract**

Once you have determined the appropriate option for your organization, you will need to fill out the "Training Membership Program Contract" located on the following page **Please ensure that you have a primary and secondary contact from your organization.** Both contacts must have the authority to sign and execute this contract. Both contacts must also have the ability to represent your organization, including but not limited to scheduling, membership/eligibility verification, and prerequisite training/certification records. Every attempt will be made to contact the primary contact first in all matters.

**A current roster of your membership must be submitted with your contract for the Silver and Gold levels. Contracts submitted without rosters will be returned.** If necessary, Bucks will contact your representative(s) to verify a member's status. Multiple programs of the same or different levels may be purchased. Packages are valid for 12 months from purchase date.

Should you have any questions or need any assistance with the Training Membership Program, please contact your Regional Field Director.

**Payment should be made to Bucks County Community College**





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**Training Membership Program Contract 2025**

**Organization Information**

Name of Organization: \_\_\_\_\_

Organization Address: \_\_\_\_\_

Organization County: \_\_\_\_\_

Telephone: (\_\_\_\_\_)\_\_\_\_\_ Fax: (\_\_\_\_\_)\_\_\_\_\_

**Primary Representative Contact Information**

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Day Phone: (\_\_\_\_\_)\_\_\_\_\_ Evening Phone: (\_\_\_\_\_)\_\_\_\_\_

Email Address: \_\_\_\_\_

**Secondary Representative Contact Information**

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Day Phone: (\_\_\_\_\_)\_\_\_\_\_ Evening Phone: (\_\_\_\_\_)\_\_\_\_\_

Email Address: \_\_\_\_\_

**Program Selection**

The above-indicated Public Safety Organization authorizes this contract with Bucks County Community College to enroll in the Training Membership Program option as indicated below:

_____ Pay by The Program	Payment must be received with the course application
_____ Basic Training	\$1,000.00 per calendar year, per organization
_____ Bronze Membership	\$1,400.00 per calendar year, per organization
_____ Silver Membership	\$3,100.00 per calendar year, per organization
_____ Gold Membership	\$4,100.00 per calendar year, per organization
_____ Platinum Membership	\$5,500.00 per calendar year, per organization
_____ Online National Cert	\$2,000.00 per calendar year, per organization

By signing below, you agree to the terms and conditions set forth in the Training Membership Program for the option you selected.

Authorized Officer's Name: \_\_\_\_\_ Title: \_\_\_\_\_

Authorized Officer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_



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# Bucks County Community College



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***Accredited by:***



## Department of Public Safety Training & Certification

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**Newtown Business Office**  
275 Swamp Road, Cottage 1  
Newtown, Pennsylvania 18940  
Ph. 267-685-4888 Fax 215-497-8721

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<b>Doylestown Training Facility &amp; Office</b> 1760 South Easton Road Doylestown, Pennsylvania 18901	<b>Bristol Training Facility &amp; Office</b> 2912 River Road Croydon, Pennsylvania 19021 Ph. 267-685-4888 Fax 215-788-4906
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**Website:** <http://www.bucks.edu/publicsafety>