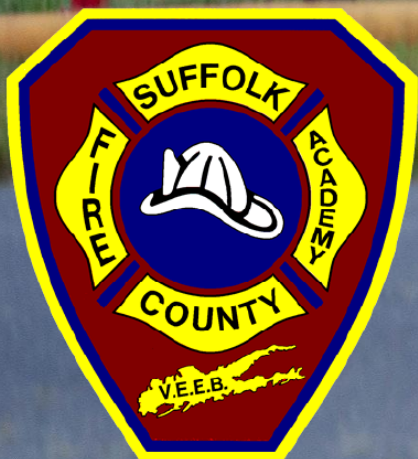
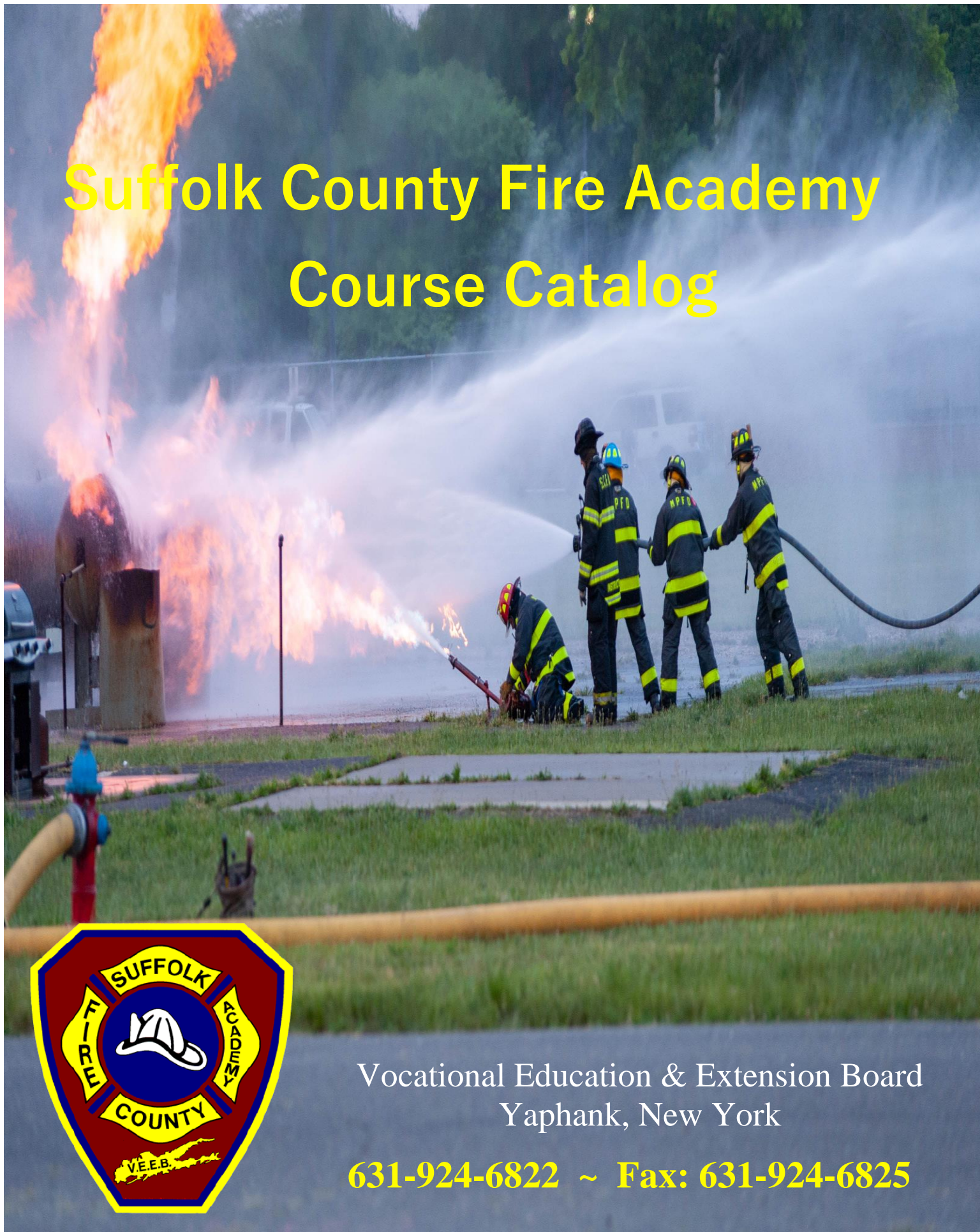


Suffolk County Fire Academy Course Catalog



Vocational Education & Extension Board
Yaphank, New York

631-924-6822 ~ Fax: 631-924-6825

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The mission of the Suffolk County Fire Academy is to provide the most cost effective, up-to-date training available to its customers – the volunteer firefighters, career firefighters, and emergency responders of Suffolk County.

Administration Office Information

Suffolk County Fire Academy, 103 East Ave, Yaphank, NY 11980

Administrative Office Information

**Monday - Friday 8:00am - 4:00pm (excluding holidays)
Telephone: 631-924-6822 | Fax: 631-924-6825**

Web Site Access Information

Our website is <http://scfa-li.org/> The website provides information on office hours, staff directory, news regarding events at the academy and frequently asked questions.

Cancellation Policy

After Hour Cancellations please call the Field Supervisors Office at 631-924-6822 x221 to cancel a drill after hours or on weekends.

Guidance Counselor – guidancecounselor@scfa-li.org

Guidance Counselor is for students that are experiencing any issue with any of our on-line training courses. Using the link above please state your name and what is the particulars of the issue or problem you are experiencing. Once received please allow for up to 6 business days to respond to your email. It will not be necessary to contact the Fire Academy Office staff regarding this matter as they do not have the necessary access to assist you. We appreciate your patience, thank you.

Brief History of VEEB and the Fire Academy

On May 24, 1943, the Vocational Education and Extension Board of the County of Suffolk was created by resolution of the existing Board of Supervisors to establish a fire school to deliver training programs for the volunteer firefighters of Suffolk County. For years we were simply known as the Fire Training School. During the mid-1980's the Vocational Board changed its designation to the Suffolk County Fire Academy to better reflect the variety of programs offered

During the early years, programs were conducted primarily at local fire stations. Hands-on training was either taught at other County Fire Schools or at improvised facilities provided by resourceful departments.

In 1959, the Fire Training Center at Yaphank, New York was commissioned for operation. Although its facilities only consisted of a training tower, smokehouse, and oil pits, they formed the basis for the development of today's training complex. Between 1959 and 1981, the following training props were added to the field: the Class A residential burn building, Railroad tank car, Taxpayer facility, Pump test building, LP gas facility, Maze facility and the Classroom/Administration building. Through the years, improvements were made to the LP gas facility, and additional classes were added such as Vehicle fires and Electrical emergencies. A Natural gas mockup was installed in one of the classrooms.

The last fifteen years have brought changes and improvements to the Fire Academy's facilities. Our instructors built a Confined space simulator, and the New York State Fire Academy recognized the Suffolk County Fire Academy as the downstate Regional Confined Space Training Facility. An LPG vehicle prop was installed as well as a Live fire tractor trailer prop on the field. The Tower building was opened, with a natural gas burning prop, and in a later year, an extension was added to the building. Upgrades, such as movable interior partitions and power jam doors, allow the layout to be changed as needed to enhance training. A new Class A burn building was constructed. This building reflects the type of homes commonly constructed in Suffolk County. It is approximately 5,000 square feet and includes a front porch, attached two-car garage, basement, and attic. The old class A building was repurposed and is being utilized for thermal imaging and search drills. A wood frame, two-story building, was constructed by Academy Instructors to demonstrate different construction characteristics and is used for Rapid Intervention Team hands-on-training. Additions to this prop include a basement egress window and a forcible entry door.

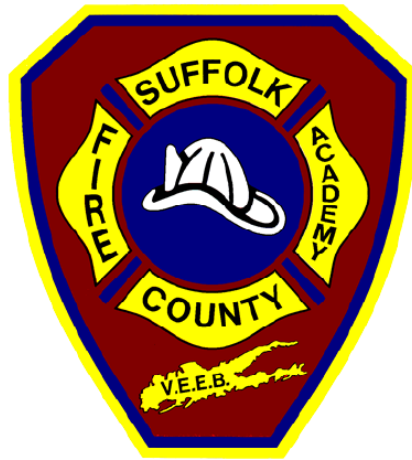
In 2006, we saw the arrival of a Flashover Simulator in the field. A second Flashover Simulator was added in 2018. These facilities enable our instructors to further enhance the County's firefighters' interior firefighting skills. The construction of the new pump test/storage building was completed which enables us to test pumps to 4,000 gallons per minute. With the addition of the Long Island Railroad Prop in 2019 we began new fire training for railroad incidents. In the fall of 2022, the Vehicle Fire Prop was upgraded.

Fire Academy classroom facilities have all been updated with the latest audio-visual equipment. There are dedicated rooms for gas emergencies, technical rescue, and hazardous materials courses. We have revamped classes such as the Firefighter I and Firefighter II courses. These courses along with the Intro to Fire Officer, Fire Officer I, and FAST/RIT classes are college accredited. We have added Marine Emergencies, Brush Truck Safety and Tactics, as well as Fire and Emergency Services Instructor I and II courses. Currently, there is a capital improvement project to add a live burn prop to simulate "garden apartment style housing." This will add to our facility the ability to train in multiple residential housing fire scenarios.

The Fire Academy's dedication to the firefighting community is exemplified by the fact that we remained operational during the COVID pandemic of 2020 – 2023. This was accomplished by

offering online classes to provide for the continuing education of our first responders.

We look forward to this year's training schedule and will continue to provide the firefighting communities of Suffolk County with the best training available.



Abbreviations

CPR	Cardiopulmonary Resuscitation
EMS	Emergency Medical Service
EMT	Emergency Medical Technician
EPA	Environmental Protection Agency
ERG	Emergency Response Guidebook
EVOC	Emergency Vehicle Operations Course
FAST	Firefighter Assist and Search Team (aka Rapid Intervention Team)
Haz Mat	Hazardous Materials
HMFRO	Hazardous Materials First Responder Operations
ICS	Incident Command System
IS	Independent Study (on-line class)
IDLH	Immediately Dangerous to Life and Health
LIRR	Long Island Railroad
NFPA	National Fire Protection Association
NIMS	National Incident Management System
NYS	New York State
OFPC	Office of Fire Prevention and Control
OSHA	Occupational Safety & Health Administration
PCB's	Polychlorinated biphenyls
PPE	Personal Protective Equipment
RIT	Rapid Intervention Team
SCBA	Self Contained Breathing Apparatus
SCFA	Suffolk County Fire Academy
US DOT	United States Department of Transportation
VEEB	Vocational Extension & Education Board

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GENERAL SAFETY

FIRE EXTINGUISHERS IN THE WORKPLACE

This program is intended to assist the employer in addressing the OSHA training requirements in 29 CFR 1910-157, which briefly states that if an employer is going to permit an employee to fight a fire of any size, the employer must make sure that the employee knows the general principles of fire extinguisher use and the hazards involved with incipient stage of firefighting. Students will be trained how to safely face a fire situation and how to choose an appropriate extinguisher. They will be trained in extinguisher identification, the purpose of each extinguisher and the practical use of the extinguishers they will encounter. This course is taught to first responders as well as general industry employees.

Course Length: 3 Hours
Prerequisite: None
Certificate: None

FIRE POLICE

This course trains fire police to perform their duties more effectively. It includes defining and interpreting terms, oath of office, relation to regular police officers, general duties, maintaining safe conditions at an emergency, traffic direction and control, pre-planning, and various laws of interest to the fire service. It consists of six sessions, five three-hour lecture sessions and the last session, which is held at the Fire Academy, is a six-hour session that consists of hands-on skills testing and a written final exam.

Course Length: 21 Hours
Prerequisite: ICS 100*
Certificate: NYS

FIRE POLICE REFRESHER

This course provides a complete review of Fire Police operations. This course is recommended for those members who have already completed the New York State Fire Police program.

Course Length: 3 Hours

INTRODUCTION TO FIRE POLICE OFFICER

This course will provide the students with knowledge in fire police authority, emergency response, scene size-up, safety, training, leadership and management, incident management, and pre-planning. This course compliments our ongoing fire officer and EMS officer courses.

Course Length: 6 Hours
Prerequisite: ICS 700*, Fire Police
Certificate: SCFA

*Some courses are offered online, and they are referred to as IS

INCIDENT SAFETY OFFICER

This course enables students to identify and analyze health and safety aspects that affect the Fire Departments, Ambulance Companies, and other Emergency responders in both emergency and non-emergency situations. The target personnel are Company officers (Captains, Chiefs, Ex-Chiefs) familiar with the Incident Command System, Haz Mat management, applicable NFPA and Federal regulations, building construction and fire behavior. The goal is to develop decision-making skills through recognition of clues that affect safety of the personnel. This course focuses on incident scene operations with the use of case studies to convey instructional points, codes and regulations.

Course Length: 15 Hours
Prerequisite: Firefighter I, ICS 100* & ICS 200*
Certificate: SCFA

***Some courses are offered online, and they are referred to as IS**

FIRE SUPPRESSION

FIREFIGHTER I

As the initial entry program for firefighting personnel, Firefighter I introduce firefighting concepts, practices, and techniques necessary for success within the fire service.

Based on the Firefighter Level 1 objectives from NFPA Standard 1001, this course develops knowledge, skills and abilities based on performance criteria for the following topics: fire department organization, firefighter safety, fire behavior, personal protective equipment, self-contained breathing apparatus, fire extinguishers, building searches, forcible entry, ground ladders, ventilation, hose practices, fire streams, loss control and hazmat operations. Encompassed in the program are classroom sessions, virtual online sessions and self-paced learning over a 16-week period. There will be 5 hands-on performance sessions that cover the following: SCBA emergencies, tools, search, victim and firefighter removal, ladders, hose handling, fire behavior, and vehicle fires. A practical skills exam and written test are administered at the end of the course. Students must attend all sessions of this course. Registration is required and no walk-ins will be admitted.

Students will also be required to participate in online discussions as determined by the instructor, using IFSTA ResourceOne. Upon successful registration, students will be provided with access information for the ResourceOne program and the course syllabus. Pre-registration is required, after your registration is processed, you will receive a confirmation email with final instructions.

NOTE: Prior to taking hands-on sessions, probationary firefighters must be certified by the Chief of their Department in the following areas: 1) qualified on the Department's SCBA equipment 2) is physically and medically fit to undertake the training and passed the Department's required physical exam.

Course Length: 110 Hours
Prerequisite: CPR, ICS 100*
Certificate: NYS, College Accredited

BASIC EXTERIOR FIREFIGHTING OPERATIONS WITH HMFRO

The student will be provided with the training to support firefighting activities that arise before, during and after fire attack with respect to their exterior only classification.

The student will be exposed to the knowledge and skills pertaining to: Scene Safety, Fire Behavior, PPE and SCBA Practices (excluding donning and doffing of SCBA), Fire Extinguishers, Hose and Appliances (excluding fire advancement and attack), Fire Streams, Ground Ladders, Ropes, Knots and Salvage. Includes Hazardous Materials First Responder Operations. The course is derived from the Firefighter I Curriculum.

Course Length: 82 Hours
Prerequisite: CPR, ICS100*
Certificate: NYS

***Some courses are offered online, and they are referred to as IS**

FIREFIGHTER II

Designed as the last step for interior structural firefighters, Firefighter II is based on performance objectives from NFPA Standard 1001, Firefighter Level II.

This course consists of performance criteria in incident command implementation, building materials and collapse, vehicle extrication, technical rescue, fire hose testing, foam operations, flammable liquid/gases, fire detection and alarm systems, fire cause and origin, fire department communications, fire reports, pre-fire planning, strategy, and tactics. The course will be presented in a hybrid format consisting of classroom lectures, online classes, and hands-on classes.

This course will require extensive self-paced, reading and completion of homework assignments and online quizzes by the student. Students will also be required to participate in online discussions as determined by the instructor, using IFSTA ResourceOne. Upon successful registration, students will be provided with access information for the ResourceOne program and the course syllabus. Pre-registration is required, after your registration is processed, you will receive a confirmation email with final instructions.

Course Length: **54 Hours**
Pre-Requisite: **Firefighter I, ICS 200***
Certificate: **SCFA, College Accredited**

***Some courses are offered online and they are referred to as IS**

APPARATUS OPERATOR / PUMP

This course is to give the student the requisite knowledge and skills to meet the intent of the NFPA 1002 Apparatus Driver/Operator professional qualifications standard. This course includes the responsibilities of pump operators, hydraulics and friction loss, pump controls and accessories, fire streams, pumper practices, drafting and pump evolutions, and using the fire pump at the hydrant. Lecture, hands on demonstrations, and practice sessions are included. Students who wish to become Pump Operators must meet the requirements of their specific apparatus manufacturer and their Fire Department's SOPs/SOGs.

Course Length: **18 Hours**
Prerequisite: **Firefighter I or Basic Exterior Firefighting with HMFRO, Engine Company Operations**
Certificate: **NYS**

BRUSH TRUCK SAFETY AND TACTICS

This course is designed to teach the Wildland / Urban Interface and fighting brush fires with specialized apparatus. The Standing Orders and Watchouts are reviewed during the lecture. Instruction includes the various types of brush fire apparatus and defining their limitations and capabilities. Strategy and tactics of fighting wildland fires are discussed and history of these types of fires in our region. This lecture also references NFPA Standard 1051, Standard for Wildland Firefighting Personnel describing their essential skills and training. The safe operation and driving techniques are presented as well as the different methods of fire attack.

Course Length: **3 Hours**
Prerequisite: **Firefighter I or Basic Exterior Firefighting with HMFRO**
Certificate: **None**

ENGINE COMPANY OPERATIONS

This program provides the firefighter with in-depth information on the functions of a fire department engine company. Subject areas covered include: a historical review of an engine/hose company, various hose loads for effective fire suppression; water supply set-up, staff assignments and recommendations on how to meet accepted performance objectives for an engine company. There are 3 classroom sessions.

Course Length: 9 Hours
Prerequisite: Firefighter I
Certificate: SCFA

EMERGENCY VEHICLE OPERATIONS COURSE (EVOC)

This course provides vehicle operators with a better understanding of the seriousness of emergency vehicle operation. Based on objectives from NFPA Standard 1002, this course makes students aware of the potential for tragedy and financial loss, legal and moral responsibilities encountered when operating an emergency vehicle. During the hands-on portion of this course, students will demonstrate required maneuvers in their own agency vehicle. The driving skills tested include turning, backing up, parking, clearance, and stopping while operating an emergency vehicle.

Course Length: 18 Hours
Prerequisite: Valid NYS Drivers License
Certificate: SCFA

LADDER COMPANY OPERATIONS

Topics covered in this course include an overview of Ladder Company operations at private dwelling and commercial building fires. There is an introduction to basic aerial devices and the proper use of them at various types of occupancies.

Course Length: 6 Hours
Prerequisite: Firefighter I
Certificate: SCFA

MARINE EMERGENCIES

The jurisdiction of fires involving boats is a local responsibility with federal assets to assist if possible. This course covers all types of marina fires that one might expect to find in Suffolk County. This session will review major aspects of the National Fire Protection Association's *Standard, NFPA 1005, Standard for Professional Qualifications for Marine Fire Fighting for Land-Based Fire Fighters*. Course content will include dry dock storage, both winter and summer, fueling, ferry boats, fishing boats, case histories and hazards when fighting fires on boats.

Course Length: 3 Hours
Prerequisite: Firefighter I
Certificate: None

FIREFIGHTER ASSIST AND SEARCH TEAM (FAST)

The firefighter as a member of a FAST/RIT operation will identify the tools and staffing for a FAST/RIT operation, develop a rescue plan for a missing, lost or trapped firefighter; demonstrate rope search techniques, and demonstrate removing a firefighter/victim up a stairwell, up or down through a hole in a floor/roof, moving a downed firefighter out of a window, and lowering a firefighter down a ladder. This course requires students to perform a number of practical evolutions with self-contained breathing apparatus (SCBA). This course is designed for the Firefighter and Fire Officer to enhance their ability to operate proficiently as a FAST/RIT crew. Subjects covered include Air Management, Emergency Communications, Downed Firefighter Removal Techniques and Self-Survival Skills. This challenging course at the Fire Academy features a brief PowerPoint Program each of the five nights followed by extensive hands-on training. Members attending should be in good physical condition. A New York State Certification is awarded after successful completion of the course.

Course Length: 20 Hours
Prerequisite: Firefighter I
Certificate: NYS, College Accredited

FIRE OFFICER DEVELOPMENT

INTRODUCTION TO FIRE OFFICER

This certificate program consists of two modules from the Fire Officer I program which can be taken in any order: the Fireground Strategy and Tactics for First Arriving Companies module (15 hours), and the Leadership and Supervision module (15 hours). These modules address the job performance requirements found in Chapter 4 of NFPA 1021, Standard for Fire Officer Professional Qualifications, for their respective subjects and include topics such as scene size-up, engine company operations, truck company operations, response to non-fire emergencies, leadership and supervision.

Course Length: 30 Hours
Prerequisite: Firefighter I or Basic Firefighter Training or Essentials of Firefighting or Basic Exterior Firefighting Operations with HMFRO
Certificate: SCFA, College Accredited

NOTE: Students who wish to do so may continue on to complete the remaining three modules in the Fire Officer I course to earn Fire Officer I certification. All five modules must be completed within 2 years of the start date of the first module.

FIRE OFFICER I

This course addresses all of the job performance requirements found in Chapter 4 of NFPA 1021, Standard for Fire Officer Professional Qualifications. The course consists of five modules that can be taken in any order: Leadership and Supervision (15 hours), Company Training & Community Risk Reduction (12 hours), Firefighter Health and Safety (12 hours), Planning and Emergency Response (9 hours), and Fireground Strategy and Tactics for First Arriving Companies (15 hours). Topics include assuming the role of company officer, fire department organization, leadership, supervision, communications, building construction, pre-incident planning, company level training, scene size-up, engine company operations, truck company operations, and response to non-fire emergencies. All five modules must be completed within 2 years of the start date of the first module.

Course Length: 63 Hours
Prerequisite: Firefighter I or Basic Firefighter Training or Essentials of Firefighting or Basic Exterior Firefighting Operations with HMFRO
Certificate: NYS, College Accredited

EMS OFFICER AND LEADERSHIP TRAINING

This program is a 6-hour course designed to provide the EMS provider with the tools necessary to become an effective EMS officer, leader, or mentor in today's EMS environment. Topics include leadership skills, problem solving, communication skills, motivational techniques, and related topics. Attendance at all 6 hours is required for successful course completion.

Course Length: 6 hours
Prerequisite: None
Certificate: SCFA

ICS 300: INTERMEDIATE ICS, INCIDENT COMMAND SYSTEM FOR EXPANDING INCIDENTS

This course is designed to enable personnel to operate efficiently using the Incident Command System in supervisory roles on expanding or Type 3 incidents. The course unit topics include ICS fundamentals review, incident/event assessment, unified command, incident resource management, planning process, demobilization, transfer of command, and closeout.

Course Length: 24 Hours
Pre-Requisite: ICS 100* & ICS 200*
Certificate: NYS

FIRE INSTRUCTOR DEVELOPMENT

PRINCIPLES OF INSTRUCTION

This is an introductory course for individuals who will be conducting training at the company level. Topics include qualities of a good instructor, job performance requirements, components of a lesson plan, cognitive and psychomotor lesson plans, dealing with adult learners, meeting individual learning needs, factors that affect learning, the instructor's role in safety, new technologies in course delivery, and learning characteristics of different generations.

Course Length: 16 Hours
Prerequisite: Firefighter I
Certificate: NYS

FIRE AND EMERGENCY SERVICE INSTRUCTOR I

This is an upper-level course designed for the experienced firefighter, fire instructor candidate, fire officer candidate, or other individual who will be delivering instruction within a fire and or a emergency service organization. In addition to the basic knowledge, skills and abilities required for new instructors, this course prepares the candidate to meet the Instructor I job performance requirements as defined in NFPA 1041 "Fire Service Instructor Professional Qualifications", including delivering instruction from a prepared lesson plan, instructional aids and should be proficient in PowerPoint development. The student shall also be taught how to use evaluation instruments, adapting lesson plans, organizing the learning environment and meeting record-keeping requirements.

There is a lengthy pre-course reading assignment and students complete a pre-test, final exam and three presentations during the course. Course includes homework and independent study.

Course Length: 40 Hours
Prerequisite: Principles of Instruction
Certificate: NYS

FIRE AND EMERGENCY SERVICE INSTRUCTOR II

This is an upper-level course designed for the experienced fire and emergency service instructor. This course prepares the candidate to meet the Instructor II job performance requirements as defined in NFPA 1041, "Fire Service Instructor Professional Qualifications", including developing individual lesson plans, scheduling training sessions, budgeting, acquiring resources, developing and analyzing evaluation and feedback instruments, and supervising and coordinating the activities of other instructors. There is a lengthy pre-course reading assignment, and students must complete a pre-test, final exam, independent assignments and one presentation during the course. The course includes homework and independent study. This course is designed for fire and emergency service departments training officers.

Course Length: 50 Hours
Prerequisite: Fire and Emergency Service Instructor I or Fire Service Instructor I
Certificate: NYS

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS FIRST RESPONDER OPERATIONS ANNUAL REFRESHER

This course provides training to review and refresh the competencies covered in both NFPA Standard 472 and OSHA 1910.120. This program provides a review of the nine classes of materials, use of the US DOT Emergency Response Guidebook, principles of containment, confinement, and extinguishment within the scope of duties of the first responder at Operations Level. This training is designed to satisfy the annual refresher training requirements of OSHA for hazardous materials.

Course Length: 3 Hours
Prerequisite: HazMat Operations
Certificate: None

HAZARDOUS MATERIALS TECHNICIAN – BASIC

This course prepares emergency response personnel to respond to and stabilize incidents involving hazardous materials in an offensive mode effectively and safely. Meets the training requirements of both skills and knowledge that a Hazardous Materials Technician must demonstrate to be certified under OSHA 1910.120 and NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. Includes the chemistry and toxicology of hazardous materials; the dangerous properties of chemicals; the use of detection instruments, confinements and containment procedures, including hands-on application; incident management and safety procedures; decontamination; and the selection and use of chemical protective clothing with hands-on practice.

Course Length: 40 Hours
Prerequisite: Hazardous Materials First Responder Operations
Certificate: SCFA

TECHNICAL RESCUE

BASIC STRUCTURAL COLLAPSE OPERATIONS

This course provides specialized training in the realm of building collapse rescue, a threat to every community. Content will include warning signs, collapse causes, void identification, safety precautions, search techniques, team operations, building construction awareness, and initial fire department operations.

Course Length: 8 Hours
Prerequisite: None
Certificate: NYS

CONFINED SPACE AWARENESS

This course provides identification and awareness information to allow students to make reasonable judgments in confined-space rescue situations. It includes topics such as regulations, response planning, hazard types, personal protective equipment, retrieval equipment, and air quality. Case histories and student exercises provide opportunities to practice planning skills for confined space rescue response as well as evaluate past incidents.

Course Length: 6 Hours
Prerequisite: None
Certificate: NYS

HEAVY RESCUE I

This course provides the student with the specialized skills required during heavy rescue/vehicle extrication and victim disentanglement operations. The program involves both classroom lecture and hands-on training. It covers the use of hydraulic/battery powered rescue tools, air tools, air bags, and specialized equipment and procedures used to stabilize vehicles in various positions. This course will also cover vehicle construction and technology as well as alternative fueled vehicles.

Course Length: 15 Hours
Prerequisite: Firefighter I or Basic Exterior Firefighting with HMFRO
Certificate: SCFA

HEAVY RESCUE II

This course allows students to continue their training in the heavy rescue disciplines, going beyond vehicle extrication and disentanglement. The program involves both classroom lecture and hands-on training. Topics will include: an introduction to meters used during everyday emergencies as well as hazardous materials incidents, elevator emergencies, basic rigging, cutting torches, and industrial rescue/man-in-machine incidents.

Course Length: 15 Hours
Prerequisite: Firefighter I or Basic Exterior Firefighting with HMFRO, Heavy Rescue I
Certificate: SCFA

ICE RESCUE

This two-session course consists of a classroom presentation covering the principles of rescuing victims in ice through an organized approach. Information presented includes, ice conditions, techniques of rescue, victim care, cold-water syndrome, hypothermia, wind chill, frostbite and recovery operations. The second session is conducted outdoors, in daylight hours, when prevalent conditions provide suitable ice to allow students to demonstrate techniques presented during classroom session. There is a class size limit to 20 students.

Course Length: 6 Hours
Prerequisite: None
Certificate: SCFA

MEDIUM LEVEL STRUCTURAL COLLAPSE CONCEPTS

This program is designed to provide the background knowledge necessary to perform rescue operations at a structural collapse incident. The course includes instruction on structural construction considerations such as types of construction, construction techniques, terminology and mechanism of collapse based on structure type; detailed concepts of structural shoring systems, void search and rescue operations in structural collapse incidents; structural collapse team organization and operations concepts. Hands-on training will also be conducted and will include an introduction to techniques and the equipment used to construct emergency shoring.

Course Length: 12 Hours
Prerequisites: Basic Structural Collapse Operations
Certificate: NYS

MEDIUM STRUCTURAL COLLAPSE OPERATIONS: EXTERIOR SHORING

This two-day program will thoroughly familiarize the student with the exterior shoring techniques needed to safely construct all the types of exterior shores generally needed to conduct safe rescue operations and stabilize the exterior of the structure. Students in this intensive hands-on course will be tested on the proper construction of the various shores needed to accomplish this task.

Course Length: 16 Hours
Prerequisites: Rescue Technician-Basic, Basic Structural Collapse Operations
Medium Level Structural Collapse Concepts, Medium Structural Collapse Operations: Tools
Certificate: NYS

MEDIUM STRUCTURAL COLLAPSE OPERATIONS: INTERIOR SHORING

This two-day program will thoroughly familiarize the student with the proper interior shoring techniques needed to safely construct all the types of interior shores generally utilized to conduct safe rescue operations. This is an intensive hands-on course, and the students will be tested on the proper construction of the various shores.

Course Length: 16 Hours
Prerequisites: Rescue Technician-Basic, Basic Structural Collapse Operations
Medium Level Structural Collapse Concepts, Medium Level
Structural Collapse Operations: Tools
Medium Structural Collapse Operations: Exterior Shoring
Certificate: NYS

MEDIUM STRUCTURAL COLLAPSE OPERATIONS: TOOLS

This two-day program will familiarize the student with the tools used in structural and excavation collapse related incidents. This is an intensive hands-on course and the student will be evaluated on the proper use of the tools provided.

Course Length: 16 Hours
Prerequisites: Basic Structural Collapse Operations and Trench Rescue Awareness
Certificate: NYS

MEDIUM STRUCTURAL COLLAPSE OPERATIONS: VOID SEARCH AND RESCUE

This is a two-day program with intensive practical void search training. The students participate in numerous void search evolutions with emphasis on team concepts, proper search techniques, safety operations, and size up. Simulated rescue scenarios will be conducted with students required to safely extricate victims from void spaces.

Course Length: 16 Hours
Prerequisites: Rescue Technician-Basic, Basic Structural Collapse Operations,
Medium Level Structural Collapse Concepts, Medium Structural
Collapse Operations: Tools, Medium Structural Collapse Operations:
Exterior Shoring,
Medium Structural Collapse Operations: Interior Shoring
Certificate: NYS

RESCUE TECHNICIAN / BASIC CONFINED SPACE TECHNICIAN

This course combines Rescue Technician Basic and Confined Space Technician allowing students to complete this training in a reduced time frame. The individual course learning objectives lend themselves to the overlap, rendering the combination appropriate.

Rescue Technician Basic – provides a base from which to prepare students for a wide variety of possible rescue operations. This course includes an overview in areas of specialized rescue, search, technical rescue management, risks and priorities, use of ropes, knots, and rope systems in a low angle environment, and establishment of landing zones for helicopter operations. Demonstrations, practice sessions and testing are included.

Confined Space Technician - provides practical training in confined-space hazards; air monitoring and ventilation; space isolation techniques; personal protective equipment, including both supplied air, self-contained breathing apparatus (SCBA), and respirators; and retrieval systems and methods. Practical evolutions enable the student to evaluate a specific confined-space incident and perform the necessary procedures to rescue the victim safely and effectively.

Course Length: 40 hours
Prerequisite: *Firefighter I, Confined Space Awareness*
Certificate: NYS

ROPE RESCUE OPERATIONS

Provides information and skills to adequately perform basic vertical rope rescue techniques in an urban/suburban environment. The objective of this program is to improve rescuer awareness of the safety concerns at rope rescue situations and to develop basic skills in rappelling and high-angle rescue systems. Topics include safety orientation, risk assessment, equipment, basic rappelling and ascending, anchoring, belaying, mechanical advantage, patient packaging, incident management, skills evaluation, and testing.

Course Length: 32 Hours
Prerequisite: *Rescue Technician Basic*
Certificate: NYS

ROPE RESCUE-TECHNICIAN LEVEL I

Provides information and skills to perform advanced vertical rope rescue techniques in an urban/suburban environment. The overall objective is to improve rescuer awareness of the safety concerns at rope rescue situations and to develop advanced skills in the high angle rescue techniques and systems. Topics include ascending, pickoffs, in-line transfer, knot passing, team operations, advanced litter packaging, rigging and lowering as well as horizontal and high/low tensioned systems. This program also includes written testing as well as skills evaluation.

Course Length: 32 hours
Prerequisites: *Rescue Technician-Basic, Rope Rescue-Operations Level or Intermediate Rope Rescue*
Certificate: NYS

TRENCH RESCUE AWARENESS

This course will discuss problems that can and do occur in trench rescue incidents. Safety techniques, shoring techniques, proper procedures, team operations and hazard assessment will be discussed and explained in depth.

Course Length: 8 Hours
Prerequisite: None
Certificate: NYS

TRENCH RESCUE OPERATIONS

This two-day program consists of intense hands-on training in the field of trench rescue. The student will be taught several ways to shore trenches, the different types of extrication, proper rescue site management, as well as the proper safety concepts needed to complete a safe and successful rescue. There will be live exercises in which the student will extricate a simulated trapped victim from an open trench scenario.

Course Length: 16 Hours
Prerequisite: Trench Rescue Awareness, Rescue Technician Basic, Medium Structural Collapse Operations: Tools
Certificate: NYS

TRENCH RESCUE TECHNICIAN

This program is designed to increase the skills learned in the Basic Trench class. Rescue operations in intersecting, I-shape and deep trenches will be covered. Advanced trench rescue shoring techniques and concepts will also be shown.

Course Length: 16 Hours
Prerequisite: Trench Rescue Awareness, Rescue Technician Basic, Medium Structural Collapse Operations: Tools, Trench Rescue Operations
Certificate: NYS

FIELD EVOLUTION DESCRIPTIONS

Advanced Forcible Entry – This drill is designed to teach and refresh firefighters how to gain entry to a structure. It will expand on basic techniques taught during Firefighter 1. After a brief PowerPoint presentation, firefighters will practice the skills utilizing the Forcible Entry door prop. Alternate positioning of the Halligan tool and proper striking techniques will be emphasized. **Maximum: 16 firefighters**

Class A – This drill is designed to improve a department's safe, effective, and controlled fire attack in a typical private dwelling found in our county. The Class "A" structure allows for realistic heat, smoke, and flame to reinforce the skills necessary for maintaining firefighting operations. Firefighters and Officers will be challenged as they face different scenarios on each level, cellar fires, first floor and upper floor fires. **Maximum: 30 firefighters**

Flashover Simulator – The drill is given in two parts. The first is a classroom presentation regarding flashover warning signs and actions to take if faced with these conditions. The second part is in the Flashover Simulator where firefighters can witness the fire development, thermal and ventilation impacts of the interior firefighting. **Maximum: 16 firefighters for the simulator session**

Gas Emergencies – This drill will reinforce the properties of natural gas and LP gas. Natural gas distribution pipelines and operation of control points for firefighters will be taught. The notification process and general considerations for responding firefighters to gas emergencies will be reviewed. Students will be instructed on defensive and offensive strategies involving uncontrolled gas leaks. **Maximum: 30 firefighters**

High Rise Operations - This drill is designed to teach and reinforce High Rise Firefighting Operations. Engine companies will utilize a standpipe operation to extinguish multiple fires on simulated upper floors. Truck companies will perform Forcible Entry, Search and Rescue Operations in commercial occupancies. **Maximum: 25 firefighters**

LIRR Safety and Awareness –The drill is aimed at emergency personnel who may be called to respond to an incident involving the LIRR. This program consists of a 3-hour class, including half (1/2) hour safety briefing and discussion followed by a scenario based hands-on evolution(s) utilizing the LIRR Cars at the Fire Academy facility. The class will concentrate on the proper safety precautions, communications and operational tactics that must be taken during situations involving railcar emergencies. Fire Police and EMS are encouraged to attend. **Maximum: N/A**

Low Rise Commercial Fires – This drill is designed to improve the firefighter's ability to work safely and proficiently in a low rise mixed commercial occupancy. Firefighters and Fire Officers will be challenged as they face different occupancies on each level. Students will be instructed on tactics to confront and overcome these obstacles to ensure a successful operation. The Officer in charge will have the ability to choose either a standpipe operation or a hand stretch. **Maximum: 25 firefighters**

Mask Confidence - This drill consists of a short PowerPoint presentation combined with an extensive hands-on portion designed to increase the firefighter's proficiency with SCBA. Emergency procedures and communications will be reviewed, and firefighters will be required to perform these actions as they proceed through the challenging maze. In the maze the firefighters shall perform self-rescue evolutions, emergency breathing air supplement and advanced search techniques. Participants are required to be SCBA qualified within their department prior to participation in this program and must be in good physical condition. **Maximum: 20 firefighters**

Private Dwelling Search – This drill will enable the Firefighter and Fire Officer to improve their ability to conduct an efficient and effective primary search in a Private Dwelling. Utilizing a fully furnished Cape Cod style home the students will conduct a primary search in a heavy smoke condition. Additionally, students will be required to remove multiple victims from different levels within the structure. **Maximum: 20 firefighters**

Rapid Intervention Drill – This drill is designed to allow department members to practice their strategy and tactics when faced with a down firefighter. Members will be given scenarios and allowed to operate per their department protocols and procedures using their equipment. Instructors will act as safety officers during the evolutions to ensure proper size-up, firefighting procedures, radio communications, Rapid Intervention Team (RIT) deployment, and firefighter removal. Scenarios are based on the curriculum found in the SCFA FAST / RIT Course and will be performed under simulated fire conditions. **Maximum 20 firefighters**

Standpipe Operations – This drill is designed to improve the proficiency level of the firefighter and the department while conducting interior fire operations utilizing a standpipe. A short classroom session will cover the fundamentals of the standpipe system, safety concerns and “tricks of the trade” associated with this operation. Students will then reinforce what they have learned under fire conditions. **Maximum: 25 firefighters**

Taxpayer Fires– This drill is to provide firefighters with live fire training in a variety of commercial building types. The scenarios allow for multiple commercial store fires with occupancies above for additional complexity in conducting fire operations within these type structures. Scenarios include below grade, first floor and upper floor fires and encompass fire development and fire extension issues. **Maximum: 30 firefighters**

Thermal Imaging Camera - This drill will provide the student with a basic understanding of thermal imaging and its usefulness as a tool in the fire service. Thermal imaging theory will be reviewed and demonstrated using firefighting thermal imaging cameras. Thermal imaging camera tactics will be discussed and shown. Students will learn the benefits of thermal imaging cameras on the fire ground as well as the detriments to its over-reliance. Following the lecture, students will be given the opportunity to use a thermal imaging camera in a fire environment to reinforce the lessons learned. **Maximum: 20 firefighters**

Vehicle Extrication – This drill will be conducted exclusively at the Department’s facility (firehouse or training area) and is designed to allow members to practice their strategy and tactics when faced with a vehicle extrication. The Department will be responsible for obtaining the vehicles used for the drill and may set-up the scenario (difficulty) according to the experience level of the expected participants. Members will be given the scenario and allowed to operate as per their department protocols and procedures using their equipment. Instructors will act as safety officers during the evolution and will provide guidance to ensure proper size-up, stabilization, and extrication procedures are employed. Upon completion, instructors will provide a critique where the operation will be reviewed, best practices reinforced, and suggestions for improvement shared. **Maximum: 20 firefighters**

Vehicle Fires - This drill reinforces the hazards in extinguishing a vehicle fire. The potential hazards of dangerous cargo, stored energy systems and safe, effective fire attack will be discussed. **Maximum: 20 firefighters**

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