

Suffolk County Fire Academy



**Vocational Education & Extension Board
Yaphank, New York**

Course Catalog - 2006

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A Word About 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 and deliver training programs for the volunteer firefighters of Suffolk County.

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

In 1959 the Fire Training Center at Yaphank, New York was commissioned. Although its facilities only consisted of a training tower, smokehouse and oil pits, it formed the basis for the development of today's training complex. Between 1959 and 1981, the Class A residential burn building, the Railroad Tank Car, Taxpayer facility, Pump Test building, LP Gas facility, maze facility and the classroom/administration building were added. Over the years improvements were made to the LP Gas facility and vehicle fires were added, as were Electrical Emergencies and a Natural Gas mock up installed in a classroom.

For many years we were simply known as the Fire Training School. During the mid 80's the Vocational Board changed the designation to the Suffolk County Fire Academy to better reflect the variety of programs offered.

The last ten years brought many changes and improvements to the Fire Academy's facilities. The Tank Car was converted to LPG to meet current pollution standards. Our Instructors built a confined space simulator and New York State Fire Academy made the Suffolk County Fire Academy the downstate Regional Confined Space Training Facility. The Taxpayer burn building was converted to natural gas and an LPG Car prop was installed to meet the current EPA pollution standards. The year 2000 saw the opening of a natural gas burn Tower building. This was an extension of the original Tower building. With the addition of specially designed movable partitions, the interior layout can be changed annually. Power jam doors were added to enhance training. In 2005, a new Class A burn building came on line. This building, approximately 5,000 square feet, with a front porch, attached two-car garage, basement and attic, reflects the type of home most commonly constructed in Suffolk today. The old Class A building is being used for New Recruit training and Firefighter Survival courses. A show and tell two-story building was constructed by Academy Instructors to demonstrate different construction techniques, the new hurricane windows and Rapid Intervention Team hands on training.

The year 2006 has seen the arrival of a new Flashover Simulator to the field. This new facility will enable our Instructors to further enhance the County's firefighters interior firefighting skills. The construction of the new Pump Test/Storage building is scheduled to start in the fall of this year. The new pump test facility will allow us to test up to 4000gpm.

Fire Academy classroom facilities have been updated with the latest audio-visual equipment. There are dedicated rooms for Gas emergencies, Tabletop Scenarios, Technical Rescue and Haz Mat courses.

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.

FIRE OFFICER DEVELOPMENT

INTRODUCTION TO FIRE OFFICER - NEW 2009

This is the first course in the Fire Officer series, addressing the Fire Officer I job performance requirements of NFPA 1021, Standard for Fire Officer Professional Qualifications. Topics include assuming the role of company officer, leadership, supervision and management, fire department communications, the company officer's role in safety, emergency response and size-up, strategy & tactics for single company operations and incident management.

Course Length: 27 hrs
Prerequisite: Firefighter I
Course #: 09-0024
Certificate: NYS

FIRE OFFICER'S TRAINING

This course is scheduled by the Fire Academy twice a year. It is intended for Officers (Chiefs, Captains and Lieutenants) currently in office or for those firefighters who have future aspirations to serve in the capacity of an officer. A student cannot miss any sessions and all sessions must be taken in sequence.

The following topics are covered: leadership and management, administrative issues, human resources, strategy and tactics, group scenarios, command board scenarios and interactive role playing.

Students must pre-register for this course and all prerequisite courses must be completed prior to attendance.

Course Length: 37 hours
Prerequisite: Firefighter I, ICS, VESM
Course #: FA3200
Certificate: SCFA

INTRODUCTION TO INCIDENT COMMAND ICS-100

This course, *also available on line* (www.fema.gov), identifies the requirements to use the Incident Command System, the purposes of the system and the common tasks of ICS. This program also covers common mobilization responsibilities and responsibilities at an incident; lists individual accountability responsibilities and describes common demobilization responsibilities.

Course Length: 3hrs
Prerequisite: None
Course #: ICS-100
Certificate: FEMA

NIMS/ INCIDENT COMMAND SYSTEM FOR THE FIRE SERVICE

The effective coordination of emergency response groups (fire & law enforcement), government officials, private industry specialists and media representatives are a vital function of an emergency incident commander. The main focus of this course is learning how to structure an effective incident command system that can be utilized for any type or size of emergency, ranging from a minor incident involving a single unit to a major emergency involving several agencies and other jurisdictions. This course is the equivalent training to FEMA ICS 100 and 200.

Course Length: 23hrs
Prerequisite: None
Course #: H806
Certificate: National Fire Academy

ICS-300 Intermediate ICS for Expanding Incidents for Operations First Responders

This course is designed to enable personnel to operate efficiently using the Incident Command System (ICS) 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. (Based on NIMS Fiscal Year 2007 compliance mandates, registration will be limited to Chief Officers and Captains)

Course Length: 24 Hours
Pre-Requisite: ICS 100 & ICS 200 or NIMS/ICS for the Fire Service
Course #: H465
Certificate: National Fire Academy

ICS-400 Advanced Incident Command System

The I-400 course is a classroom delivered program that discusses advanced management applications of the Incident Command System including Command and General Staff, Unified Command, Major Incident Management, Area Command and Multi-Agency Coordination. Candidates for this course should have a considerable background in incident management in both academic and practical application.

Course Length: 16 Hours
Pre-Requisite: ICS-300
Course #: H467
Certificate: National Fire Academy

STRATEGY & TACTICS FOR INITIAL COMPANY OPERATIONS

This course is designed to meet the needs of Company Officers responsible for managing the operation of one or more companies during structural firefighting operations. It is designed to develop the management skills needed by Company Officers to accomplish assigned tactics at structure fires.

Course Length: 20hrs
Prerequisite: Firefighter I
Course #: H455
Certificate: National Fire Academy

COMMAND BOARD SCENARIOS

This is an introductory course to acquaint students with the use of the command board. This model mock-up of Suffolk County, located in a dedicated classroom at the Academy, depicts the following areas: residential, commercial, industrial, airport, and farm.

The Command Board adds a new dimension to Fire Officers Training and Hazardous Materials programs. The limitation of this board is only in the mind of the user.

Course Length: 3hrs
Prerequisite: Firefighter I
Course #: FA1215
Certificate: None

FIRE INSTRUCTOR DEVELOPMENT

PRINCIPLES OF INSTRUCTION - New Fall 2009

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: 15 hrs
Prerequisite: *Designed for fire service training officers and company officers*
Course #: 09-0086
Certificate: NYS

FIRE 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 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 evaluation instruments, adapting lesson plans, organizing the learning environment and meeting record-keeping requirements.

There is a length 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: 58 hrs
Prerequisite: *Designed for fire department training officers/instructors*
Course #: 09-0051
Certificate: NYS

FIRE SUPPRESSION

CONDUCTING LIVE FIRE TRAINING

The purpose and intent of this course is to provide the student with basic understanding of the requirements of NFPA 1403 Standard on Live Fire Training Evolutions. It is intended that the student be provided with an introduction to the necessary knowledge and tools to properly prepare and conduct live fire-training evolutions. This program provides an in-depth analysis of NFPA 1403, addressing evolutions at traditional county or town training centers, gas fired training buildings and exterior props, vehicles fire and acquired structures for exterior Class B fires.

Course Length: 3 hrs
Prerequisite: Firefighter I
Course #: 08-0009
Certificate: NYS

FIREFIGHTER I

As the initial entry program for firefighting personnel, Firefighter I introduces 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 and loss control. This course consists of an addition 8 hands on performance sessions that cover the following: maze; SCBA emergencies, tools, knots and victim removal, ladders, hose handling, smoke discipline, fire extinguishers and vehicle fires.

This course includes 3 CPR sessions that may be taken outside the Fire Academy and Hazardous Materials Operation. CPR is offered at the Academy on a monthly basis. A final exam concludes the program after all classroom and hands on sessions have been completed. ***The entire program must be completed within two years.***

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 and 2) is physically and medically fit to undertake the training and passed the Department's required physical exam.

Course Length: 107 hrs
Prerequisite: None
Course #: 1S-5062
Certificate: NYS

FIREFIGHTER II

Designed as the last step for interior structural firefighters, Firefighter II is based on objectives from NFPA Standard 1001, Firefighter Level II. This course consists of performance criteria in: incident command implementation, building materials and collapse, special rescue, hydrant flow and operability, hose tools, foam operations, flammable liquid/gases, detection, alarm systems, fire cause and origin, fire department communications, pre-fire planning, special situations, strategy and tactics.

Course Length: 27 hrs
Prerequisite: FF I, Heavy Rescue, Incident Command, HazMat Ops
Course #: 1T-5063
Certificate: NYS

ADVANCED FORCIBLE ENTRY

Due to an ever-growing security conscious society, today's firefighters will confront a variety of problems in gaining access to structures in emergency incidents. This program covers the common forcible entry tools and specialized tools used in the fire service. In the course, a variety of locks, locking mechanisms and security devices will be demonstrated and reviewed. First session can be given at Fire Department. The second session is held at the Fire Academy and will be all hands-on. The students will be using their Department equipment. Full turnout gear is required for all. Class size limited to 16 students. All students will be evaluated during the hands on and must successfully complete each task.

*** EACH DEPARTMENT IS RESPONSIBLE TO SUPPLY ENOUGH LOCKS FOR EACH STUDENT. THESE LOCKS WILL BE DESTROYED. A LIST OF LOCKS AVAILABLE UPON REQUEST.

Course Length: 6 hrs
Prerequisite: Firefighter I
Course #: FA1200
Certificate: None

APPARATUS OPERATOR / AERIAL DEVICES

Designed to follow the NFPA 1002 Fire Apparatus Driver/Operator Professional Qualifications. This course provides the student with knowledge necessary to operate, inspect and maintain aerial devices. Course content includes emergency vehicle operations review, classification and typing, vehicle inspection, operation of various types of aerial devices including platforms and ladders; proper location of placement and set-up at an incident, including driving, spotting and stabilizing.

Course Length: 24 hrs
Prerequisite: Firefighter I
Course #: 79-5076
Certificate: NYS

APPARATUS OPERATOR/PUMP

Offers knowledge and skills essential to pump operation. Based on objectives from NFPA Fire Apparatus Driver / Operator, this course includes responsibilities of pump operators, hydraulics and friction loss, pump controls and accessories, fire streams, pumper practices, pumping from draft and pump evolutions, and using the fire pump at the hydrant. Lecture, demonstrations and practice sessions are included.

Course Length: 24 hrs
Prerequisite: Firefighter I
Course #: 78-5075
Certificate: NYS

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 4 classroom sessions; the 5th session is hands-on at the Academy.

Course Length: 19 hrs
Prerequisite: Firefighter I
Course #: FA1250
Certificate: SCFA

EMERGENCY VEHICLE OPERATIONS (EVOC)

Provides vehicle operators with a better understanding of the seriousness of emergency vehicle operation. This course stimulates the thought processes to make students aware of the potential for tragedy and financial loss and of the legal and moral responsibilities encountered when operating an emergency vehicle.

Course length: 18 hrs

Prerequisite: Valid NYS Drivers License

Course #: NYS 1Y-5078

Certificate: NYS

LADDER COMPANY OPERATIONS

Topics covered in this course include an overview of Ladder Company functions at private dwelling fires and at commercial buildings, and introduction to basic aerial devices and the proper use of them at various types of occupancies. Hands-on practice at the Fire Academy will give the student insight into the proper placement and operations. This program is customized to the type of aerial devices the host Department has. Course has both written and skill evaluations.

Course Length: 15 hrs

Prerequisite: Firefighter I

Course #: FA1300

Certificate: SCFA

MARINA FIRES

This course covers all types of marina fires that one might expect to find in Suffolk County. 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: 6 hrs

Prerequisite: Firefighter I

Course #: FA1185

Certificate: SCFA

FIREFIGHTER SURVIVAL

Based on Chief John Salka's "Get Out Alive" program, this course is designed for self-rescue. Course content will enable firefighters to recognize the types of events encountered on the fire ground that contribute to firefighters disorientation and/or entrapment, to have knowledge of what is necessary to ensure their safety and that of their partners or crew members, and perform self-rescue techniques when disoriented, separated, or when needing to exit a structure in a emergency. This course requires students to perform a number of practical evolutions with self-contained breathing apparatus (SCBA).

Course Length: 10 hrs

Prerequisite: Firefighter I

Course #: 87-5080

Certificate: NYS

SPECIALIZED SCBA TRAINING - New for 2009

This course will include an overview of the safety features and limitations of the department's SCBA's Warning Devices, Emergency Bypass Operation, Medical Signs and Symptoms limiting the effective use of SCBA; review and demonstrate required emergency operations when an SCBA fails, review and demonstrate Required Emergency Operations related to self-rescue situations (reduced profile, quick escape, swim maneuver, etc.); review and demonstrate communications with facepiece in place including communications associated with SCBA emergencies (May Day Transmissions); review and demonstrate Emergency techniques using an SCBA to assist other members (RIC/UAC & EBSS)

Course consists of two sessions; one department specific session (3 hour) at the Firehouse and one field session (approximately 6 hours) at the Fire Academy, which will include Mask Confidence (Self Rescue) Evolutions, RIC/UAC Evolutions, Locate and Don SCBA in simulated IDLH environment and Advanced Search Techniques with SCBA donned. Please note that the evolutions conducted during the field session are considered physically demanding. Only those firefighters who are medically qualified as interior firefighters and are adequately physically fit will successfully complete the course. Students who fail to complete any evolutions (due to lack of demonstrated skill or stamina) will not pass.

Course Length: 9 hrs
Prerequisite: Firefighter I
Course #: FA0809
Certificate: SCFA

Required Field Session Equipment: SCBA for each student, Spare Cylinder for each student, 2 additional SCBA's, Blacked out facepieces, 6 portable radios, rapid intervention crew pack (FAST/RIT Pack), Rehab Beverages

RAPID INTERVENTION TEAMS/FAST

The firefighter as a member of a RIT/FAST operation will identify the tools and staffing requirements for RIT/FAST 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 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).

Course Length: 16 hrs
Prerequisite: Firefighter I
Course #: 88-5082
Certificate: NYS

THERMAL IMAGING CAMERA

Students will learn about thermal imaging technology and the operational considerations when using a thermal imaging camera. In addition there will be hands-on demonstration and practical exercises using the host Department's thermal imaging camera. Students are required to have complete personal protective equipment for the hands-on session.

Maximum class size is 16 students

Course Length: 6 hrs
Prerequisite: Firefighter I
Course #: FA099
Certificate: SCFA

VEHICLE FIRES

This program is designed to make the firefighter aware of the potential hazards involved with fire suppression in motor vehicles. Pressurized fuel systems, catalytic converters, restraint systems, hydraulic bumpers, supplementary fuel tanks and toxic materials are discussed. Methods of hose deployment and forcible entry are presented.

Course Length: 3 hrs
Prerequisite: Firefighter I
Course #: FA1060
Certificate: None

WILDFIRE OPERATIONS & SAFETY: Course Under Revision Not Available

This program covers the proper strategy and tactics, specialized equipment and the aspects of firefighter safety that must be considered when Fire Departments are involved in wildfire incidents. Topics such as topography, weather, type of fuel, available resources and standard countywide response plans are presented. Problems associated with multi-agency response are discussed.

Course Length: 9 hrs
Prerequisite: Firefighter I
Course #: FA1875
Certificate: SCFA

Principles of Building Construction: Combustible - New Fall 2009

This course introduces basic construction principles and the special characteristics of wood and ordinary construction as they concern the fire service. Primary emphasis is on improving the fire officer's ability to ensure firefighter safety by recognizing common causes and indicators of failure and other hazards related to building construction. Course material enables the fire officer to better predict the overall reaction of a building to fire conditions.

Course Length: 12 hrs
Prerequisite: Firefighter I
Course #: 09-0034
Certificate: NYS

Principles of Building Construction: Noncombustible - New Fall 2009

This course introduces special characteristics of noncombustible and fire resistive construction as they concern the fire service. Primary emphasis is on improving the fire officer's ability to ensure firefighter safety by recognizing common causes and indicators of failure and other hazards related to building construction. Course material enables the fire officer to better predict the overall reaction of a building to fire conditions.

Course Length: 12 hrs
Prerequisite: Firefighter I
Course #: 09-0035
Certificate: NYS

HAZARDOUS MATERIALS

HAZARDOUS MATERIALS OPERATIONS

Prepares emergency responders to effectively and safely respond to and stabilize hazardous materials incidents from a defensive position. This course meets the training requirements of OSHA 1910.120 for the first responder, both at awareness and operations levels. It includes recognizing and identifying hazardous materials, classifications and the hazards of each class, transport vehicles and associated hazards, planning for incidents, personal protective equipment and its limitations, confinement methods and decontamination procedures. This course is also contained in the Firefighter I program.

Course Length: 20 hrs
Prerequisite: None
Course #: H544
Certificate: National Fire Academy

HAZARDOUS MATERIALS OPERATIONS ANNUAL REFRESHER

This course provides training to review and refresh the competencies covered in 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: 4 hrs
Prerequisite: HazMat Operations
Course #: FA253
Certificate: None

HAZARDOUS MATERIALS TECHNICIAN - BASIC

This course prepares emergency response personnel to effectively and safely respond to and stabilize incidents involving hazardous materials in an offensive mode. Meets the training requirements of OSHA 1910.120 for Hazardous Materials Technician. 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 hrs
Prerequisite: Hazardous Materials Operations
Course #: 2R-5084
Certificate: SCFA

FOAM

This program was designed to familiarize firefighters with the practicality of and methods employed when utilizing various firefighting foams. Aqueous Film Forming Foam (AFFF), Polar Solvents Foams, Protein and Class A foams are all covered by this program. The types of foam application equipment are also presented.

Course Length: 3 hrs
Prerequisite: None
Course #: FA031
Certificate: None

FLAMMABLE LIQUIDS

This program covers the definition of flammable liquids, the hazards of these liquids and properties. The session presents the proper strategies and tactics that are used in the suppression of flammable liquid fires. This training class should be considered prior to attending hands on training at the Fire Academy complex. This class can also serve to assist in meeting the requirements set forth by OSHA 1910.120.

Course Length: 3 hrs
Prerequisite: None
Course #: FA030
Certificate: None

LIQUID PETROLEUM GAS – LPG

The program is designed to address the hazards, properties and uses of LP gas along with the operations prescribed for handling emergency situations. Strategies and tactics used in response to incidents are reviewed. Typical storage methods for the product are reviewed as well as detailed descriptions of various transport vehicles in use. Common layouts of fixed facilities, both manufacturing and dispensing are discussed. Case histories are presented for analysis and discussion.

Course Length: 3 hrs
Prerequisite: None
Course #: FA-060
Certificate: None

NATURAL GAS EMERGENCIES

This training course is conducted in two stages. The first session delivered at the local fire station covers the properties of natural gas, characteristics and emergency response procedures for Fire Departments. The second session is conducted at the Fire Academy at the natural gas mock up. A variety of gas distribution system components found in the bi-county region are on display. Demonstration, as well as hands-on applications will be conducted during this session.

Course Length: 6 hrs
Prerequisite: Firefighter I
Course #: FA1190
Certificate: None

TECHNICAL RESCUE

RESCUE TECHNICIAN – BASIC

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

Course Length: 24 hrs
Prerequisite: Firefighter I
Course #: 47-5068
Certificate: NYS

CONFINED SPACE AWARENESS & SAFETY

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.

Course Length: 6 hrs
Prerequisite: None
Course #: 35-5077
Certificate: NYS

CONFINED SPACE RESCUE

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

Course Length: 24 hrs
Prerequisite: Firefighter I and Rescue Technician Basic
Course#: 2Y-5074
Certificate: NYS

ROPE RESCUE OPERATIONS – FORMERLY INTERMEDIATE ROPE RESCUE

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 hrs
Prerequisite: Firefighter I, Rescue Technician Basic
Course #: 4B-5069
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
Course #: 4E-5089
Prerequisites: Rescue Technician-Basic, Rope Rescue-Operations Level or Intermediate Rope Rescue
Certificate: NYS

ROPE RESCUE-TECHNICIAN LEVEL II

Provides additional information and skills to perform advanced vertical and horizontal rope rescue techniques in an urban/suburban environment. The overall objective is to improve rescuer awareness of safety concerns at rope rescue situations and to develop advanced skills in high angle rescue techniques and systems. Topics include vertical low tensioned systems (offsets) and horizontal and steep tensioned systems (highlines). This program also includes written testing as well as skills evaluation.

Course Length: 32 hours

Course #: 4T-5090

Prerequisites: *Rescue Technician-Basic, Rope Rescue-Operations Level or Intermediate Rope Rescue, Rope Rescue-Technician I*

Certificate: NYS

TRENCH RESCUE-AWARENESS LEVEL – FORMERLY BASIC TRENCH COLLAPSE CONCEPTS

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: 6 hrs

Prerequisite: None

Course #: 1X-5064

Certificate: NYS

TRENCH RESCUE OPERATIONS LEVEL – FORMERLY BASIC TRENCH COLLAPSE 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 actually extricate a trapped victim from an open trench scenario.

Course Length: 16 hrs

Prerequisite: *Firefighter I, Trench Collapse Concepts*

Course #: 4G-5065

Certificate: NYS

TRENCH RESCUE TECHNICIAN LEVEL - FORMERLY ADVANCED TRENCH COLLAPSE

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 hrs

Prerequisite: *Firefighter I; Basic Trench Concepts, Basic Trench Collapse*

Course #: 4X-5066

Certificate: NYS

BASIC STRUCTURAL COLLAPSE OPERATIONS

The collapse of a structure presents a variety of special problems for the fire service. This course provides specialized training in the realm of building collapse, a threat in every community. Course content will include warning signs, collapse causes, void identification, safety precautions, team operations and basic shoring concepts.

Course Length: 8 hrs
Prerequisite: None
Course #: NYS1602
Certificate: NYS

MEDIUM LEVEL STRUCTURAL COLLAPSE CONCEPTS

This classroom 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.

Course Length: 12 hours
Course #: 5G-5084
Prerequisites: Basic Structural Collapse Operations
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
Course #: 4J-5085
Prerequisites: Rescue Technician-Basic, Basic Structural Collapse Operations, Medium Level Structural Collapse Concepts
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
Course #: 4M-5086
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
Course #: 4K-5087
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: 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
Course #: 4N-5088
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

SCHOOL BUS ACCIDENT RESCUE

The unique construction of school buses now mandated by law, requires knowledge of emergency service personnel when responding to these incidents. This program covers the construction of such vehicles and the unique challenges they pose. Information required in handling mass causality incidents and the problems associated with this type of event are also thoroughly reviewed.

Course Length: 3hrs
Prerequisite: None
Course #: FA 096
Certificate: None

LONG ISLAND RAILROAD EMERGENCIES

The LIRR receives a written request from a Fire Department or Rescue Squad requesting this training. At the first session a LIRR training specialist is assigned and will cover the following topics, command and control, how to operate safely around high voltage equipment, isolation procedures, emergency access to the passenger cars, hazardous materials transported via rail and how to contact the LIRR. At the second session, the Suffolk County Fire Academy with the cooperation of the Nassau County Fire Academy provides hands-on training for all Nassau and Suffolk County Emergency responders. Familiarization of the two car mock up at the Nassau County Fire Academy and a review of the LIRR firehouse training precedes several scenarios and hands-on application of skills.

Course Length: 6 hrs
Prerequisite: None
Course #: FA-RR100
Certificate: LIRR

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.

Course Length: 6 hrs
Prerequisite: None
Course#: FA040
Certificate: SCFA

HEAVY RESCUE I

This course provides the student with the specialized skills required during heavy rescue operations. The program is both classroom lecture and hands-on training. It covers the use of Hydraulic Rescue tools, air tools, air bags, power saws and search techniques. This course also includes written as well as skill evaluations. Class size limited to 16 students.

Course Length: 35 hrs
Prerequisite: Firefighter I
Course #: FA0206
Certificate: SCFA

HEAVY RESCUE II

This course is delivered primarily at the local fire station. There is a maximum of 16 students for the hands-on sessions. The host Department is required to designate a course facilitator who is responsible for coordinating with the Fire Academy Instructor, insuring that all equipment and training resources are available. Attendance at lectures must precede all hands-on classes. The following topics are covered: elevator emergencies (Department must have access to an elevator), meters, their proper use and understanding of their readings, heavy rigging (Department must have a winch, grip hoist, air bags), thermal imaging camera (Department must have), advanced extrication on buses and trucks and auto extrication. There is a written final and skill evaluation done.

Course Length: 35 hrs
Prerequisite: Firefighter I, Heavy Rescue I
Course #: FA0210
Certificate: SCFA

ALTERNATE FUEL VEHICLES: Course Under Revision

This course provides a complete overview of the features and safety concerns associated with alternate fueled vehicles. Strategy and tactics to mitigate fires and/or emergencies are reviewed and discussed.

Course Length: 4 hrs
Prerequisite: Firefighter I
Course #: FA1201
Certificate: None

HEALTH & SAFETY

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. Under the provision of General Municipal Law, Section 209-c, this course, must be completed by every fire police officer that is appointed after September 1, 1980.

Course Length: 9 hrs
Prerequisite: None
Course #: 05-5073
Certificate: NYS

FIRE POLICE REFRESHER

This course provides a complete review of Fire Police operations. Basic Fire Police operations are to be reviewed annually to be compliance with New York State General Municipal Law 209-C. This course is recommended for those members who have already completed the New York State Fire Police program.

Course Length: 3 hrs
Prerequisite: None
Course #: FA051
Certificate: None

INCIDENT SAFETY OFFICER

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

Course Length: 15 hrs
Prerequisite: Firefighter I, Incident Command
Course#: H719
Certificate: National Fire Academy

ARSON AWARENESS

Designed to explain the principles of recognizing fires of suspicious origin through knowledge of known fire causes, how to determine what is evidence and how to make a preliminary investigation from a viewpoint of both firefighter and investigator. Case histories are presented and discussed.

Course Length: 4 hrs
Prerequisite: None
Course #: FA110
Certificate: None

GENERAL

ELECTRICAL HAZARDS

This course objective is to teach the emergency responder the proper method of handling electrical hazards, as they exist. Topics covered will include, power system design, facility identification, transformers and capacitors, PCB's and underground electric.

Course Length: 8 hrs
Prerequisite: None
Course#: FA120
Certificate: None

FIRE EXTINGUISHERS IN THE WORKPLACE

This program is intended to assist the employer in addressing the OSHA training requirements in 29CFR 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 everything necessary to ensure their safety. 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.

Course Length: 3 hrs
Prerequisite: None
Course #: FA010
Certificate: None

NIMS AWARENESS – IS-700

This is an introduction to the National Incident Management System. This course, also available on line through FEMA, is required of all firefighters, EMS personnel and other emergency response support personnel at all levels.

Course Length: 3 hrs
Prerequisite: None
Course #: FEMA IS-700
Certificate: FEMA

RADIO PROCEDURES

This program is for all firefighters. All aspects of the communications system utilized in Suffolk County are covered. The course highlights pertinent F.C.C. regulations pertaining to radio usage, the numerical code system and the "plain talk" system adopted by this County for standardized radio messages.

Course Length: 6 hrs
Prerequisite: None
Course #: FA098
Certificate: SCFA

FIREFIGHTER I CADET

This program is designed for members of a Department's Junior Program and is designed for students between the ages of 14 and 18. Course is lecture only and an examination is given at the end of program. Department must sponsor all students and sufficient chaperones will be required to be present through all classes

Course Length: 40 hrs
Prerequisite: None
Course # FA002
Certificate: SCFA

SCUBA Training

SELF-CONTAINED UNDERWATER BREATHING APPARATUS

The following NAUI and/or PADI courses if instruction are offered for Districts/Departments who have an organized SCUBA team or who desire to obtain training for firefighters who will become part of an organized team.

Only firefighters covered under the Volunteer Fireman's Benefit Law are allowed to enroll in these courses.

Open Water I SCUBA Diver:	10 classroom hrs; 20 hrs in water
Open Water II SCUBA (Advanced):	15 classroom hrs; dive in water at local site and deep water dive
Diving Rescue Techniques (CPR required)	12 hrs; 8 hrs in water at local site
Tethered Search & Rescue:	4 hrs classroom; 2-4 hrs in pool; 2 days in water, 2 dives each day

Specialty --these NAUI/PADI courses are certification courses at both the mid and advanced levels:

Dry Suit (24 hrs)
Search and Recovery (24 hrs)
Night Diving (12 hrs)
Boat Diver (12 hrs)
Deep Diving (24 hrs)
Ice Diving (24 hrs) * Prerequisite: Ice Rescue
Dive Master (50-100 hrs)

All costs for the aforementioned courses must be paid directly by the firefighter and/or their District/Department.