

Hunterdon County Emergency Services Training Center

TRAINING PROGRAMS

Course Descriptions

PPE:

- **Technical Rescue** = rescue helmet, eye protection, hearing protection, leather gloves, rescue boots, jumpsuit or long sleeve clothing (BDU's, etc.), water bottle, knee / elbow pads (for confined space classes).
- **Firefighter** = fire helmet, eye protection, hearing protection, hood, bunker coat and pants, bunker boots, firefighting gloves, SCBA w/ PASS device and spare cylinder, and water bottle.

(All PPE must meet your agency's minimum requirements and any applicable standards. Contact the HCESTC in advance of the class if there are any questions or concerns.)

Advanced Heavy Lifting and Moving

Prerequisite: Heavy Lifting and Moving

Description: This twelve hour course will present the student with additional skills for the lifting and moving of heavy objects during rescue operations. Students will have the opportunity to practice various rigging skills and direct a crane using hand signals to move objects. Additionally, students will review and practice the use of TU-28 and TU-32 Grip Hoists in various scenarios. The use of the Paratech Bi-Pod and Tripod will also be covered. This course combines a classroom lecture followed by a full day session of practical exercises. This course will help agencies obtain "Technician Level" training for their personnel as per NFPA 1670, and Level II training for the individual rescuer as per NFPA 1006.

PPE: Technical Rescue or Firefighter

Class Minimum: 10

Class Maximum: 24

Air Bag and Cribbing Review

Prerequisite: None

Description: This four hour course will review the proper use of the Paratech Maxiforce high pressure air lifting bags and will include a review of basic cribbing procedures used during lifting operations employed during rescue situations. The student will have the opportunity to practice the application of the devices through "hands-on" sessions. Although there are no prerequisites for this class, previous attendance at a *Heavy Lifting and Moving* and / or a *Vehicle Rescue – Operations Level* class would be a plus.

PPE: Technical Rescue

Class Minimum: 16

Ambulance Driver Training

Prerequisite: Valid New Jersey Basic Driver's License

Description: EMS is one of the most dangerous professions, joining the top three with only Police and Fire Fighter being more dangerous. Motor vehicle collisions are by far the top cause of EMT fatalities. This class, including a closed course driving session, teaches both experienced and novice drivers the research proven strategies to reduce accidents and improve crew safety in emergency response driving. This course combines CEVO III Ambulance (Classroom) and CEVO Maneuvering into a single class designed to improve the safety of driving response.

PPE: None

Class Minimum: 12

Art of Reading Smoke

Prerequisite: NJ State Firefighter Level I or 5 years on a department

The Reading Smoke component is designed to teach students how to predict the path of the fire based on the observed smoke conditions. The smoke conditions demonstrated include: color, velocity, pressure, volume and how each of these relates to specific fire conditions. With the basics established, the class then uses a case study method to review many multi-media videos and pictures to present sights and sounds from actual fires. The students will be able to apply lessons learned in class and confidently predict the movement of the fire based on what the smoke is showing. Segments of the class will highlight the evolving scene dynamics of the fire ground and the need for the continual size up process.

PPE: Firefighter

Class Minimum: 12

AZTEK Kit Basics

Prerequisite: None

Description: This four hour course will introduce the student with various uses of the AZTEK Kit in rope rescue operations. The student will learn the basic uses of the AZTEK as a travel restraint as well as the many uses of the mini 4:1 mechanical advantage side of the kit. This course combines both a short classroom lecture followed by a series of practical demonstrations. Students are encouraged to bring to class AZTEK kits used by their agencies. This course will help agencies reinforce both "Operations Level" and "Technician Level" training for their personnel as per NFPA 1670, and Level 1 and 2 training for the individual rescuer as per NFPA 1006.

Required PPE: Technical Rescue

Class Minimum: 10

Class Maximum: 24

Back to the Basics – In the Fire Service

Prerequisite: NJ State Firefighter Level I

Description: Haven't been busy? Need to remember the little things about fighting fires, setting ladders, forcible entry, and search and rescue. This course will bring it all back to you. Whether you are a seasoned firefighter or young firefighter right out of school, we will run you through soup to nuts in the basics of fire training, ending in a final live burn scenario.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Basement Fires

Prerequisite: NJ State Firefighter Level I

Description: Course will provide specific strategic and tactical training in responding to basement fires. Basement fires are becoming increasingly dangerous to firefighters. The complex nature of basement fires dictates the need for advanced training. Through a combination of classroom presentation, discussion and hands on activities this class will give firefighters the needed tools and experience to survive a basement fire. By examining case studies, building construction, strategy and tactics the students will develop an effective and safe game plan for operating at basement fires.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Basket Stretcher Patient Packaging Review

Prerequisite: None

Description: This four hour course will review the proper use of the basket stretcher, including patient packaging and basic rigging for vertical and horizontal lifts and lowers as employed during emergency situations. The student will have the opportunity to practice the application and use of the devices through "hands-on" sessions. Although there are no prerequisites for this class, a basic understanding of spinal immobilization and patient packaging skills would be a plus.

PPE: Technical Rescue

Class Minimum: 16

Big Rig Rescue™

Prerequisite: Vehicle Rescue – Technician Level (or proof of equivalent training)

Accidents involving tractor-trailers and other large vehicles call for specialized knowledge and skills on the part of emergency responders. The Hunterdon County Emergency Services Training Center is pleased to present this highly specialized vehicle rescue class entitled “Big Rig Rescue™” This course is designed for emergency response personnel who have technician-level training as well as prior experience in vehicle extrication. The BRR™ course offer hands-on scenarios that rescuers might face in their work: fully loaded tractor-trailers, cement mixers, tank trucks, and dump trucks involved in vehicle overturns, over-rides, and under-rides. This course provides emergency responders with extensive hands-on and classroom training in the use of tow trucks, rescue struts, cribbing, and airbag systems to lift and stabilize heavy vehicles during realistic vehicle extrication scenarios. This class was developed and will be presented by Billy Leach, a nationally recognized rescue and heavy rigging instructor, and an instructor at Central Carolina Community College and the FDNY Technical Rescue School. Personnel will operate in realistic conditions using the latest equipment available for vehicle rescue operations.

Students are expected to be proficient with all operations-level skills before the start of this class. This course is intended to provide “Technician-Level” training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue Incidents).

PPE: Technical Rescue or Firefighter

Class Minimum: 16

Blood Borne Pathogens

Description: This course teaches responders to avoid hazards of occupational exposure to blood borne pathogens. Understand the role of an employer must implement an exposure control plan for the worksite with details on employee protection measures. The plan must also describe how an employer will use a combination of engineering and work practice controls to avoid exposure.

PPE: None Required

Class Minimum: 10

BLS GEMS (Geriatric Education for Emergency Medical Services)*

Prerequisite: NJ Certified EMT

Description: GEMS provides a combination of case based lectures and hands on skills scenarios to allow participants to learn pre-hospital treatment techniques for older adults. The proportion of the aged in society today is greater than ever before, and growing faster than any other segment of our population. Current indications are that approximately 34% of call for emergency medical services involve patients over the age of 60.

PPE: None Required

Class Minimum: 10

BLS PEPP (Pediatric Education for Pre-Hospital Professionals)*

Prerequisite: NJ Certified EMT & Must complete online session prior to attending course.

Description: PEPP represents a complete source of pre-hospital medical information for the emergency care of infants and children. Developed by the American Academy of Pediatrics, PEPP is an exciting curriculum designed to teach pre-hospital professionals how to better assess and manage ill or injured children, PEPP is a comprehensive, innovative, and highly-visual course featuring case-based lectures, live-action video, hands-on skills stations, and small group scenarios. **The Basic Life Support (BLS) course is geared toward the Emergency Medical Responder (EMR) and Emergency Medical Technician (EMT). Any health professional who is responsible for the emergency care of children may find this course beneficial.**

PPE: None Required

Class Minimum: 10

CEVO Ambulance*

Description: Improve your operational safety by having your operators learn collision-prevention techniques, including cushion of safety, scanning, vehicle positioning, handling blind spots, safe backing, & parking procedures. Including a wide range of other safety related topics, including vehicle inspection, vehicle handling and design characteristics, emergency and non-emergency driving differences, safety at the emergency scene.

PPE: None Required

Class minimum: 10

CEVO Maneuvering (Ambulance)*

Description: Hands-on driving course. Learn how to safely operate your ambulance and gain skills that reduces the risk of collisions. Practice maneuvering on a driving course and conduct low-speed maneuvering skills session. *Participants must provide their own vehicles to participate in this course.

PPE: None Required

Class minimum: 10

Concrete Breaching & Breaking

Prerequisites: Structural Collapse Rescue Operations Level, Heavy Lifting & Moving, Cutting Torches for Rescue Operations (or proof of equivalent training acceptable to lead instructor)

Description: This course will introduce the students to tools and techniques necessary to cut and break through reinforced concrete, as might be encountered after the collapse of pre-cast concrete or heavy wall/floor buildings. A short classroom session will be followed by two days of intense practical exercises that will involve breaching through slabs in both vertical and horizontal positions. “Dirty Breaches”, “stitch drilling” and “clean lift-outs” will all be covered with plenty of hands-on-time. This course is intended to provide “Technician-Level” training in structural collapse rescue as outlined in NFPA 1670 (Standard on Operations and Training for Technical Rescue Incidents).

PPE: Technical Rescue, plus dust masks or APR’s and hearing protection

Class Minimum: 16

Confined Space Patient Packaging Review

Prerequisite: None

Description: This four hour course will review the proper use of the SKED stretcher, Miller full body Splint, and LSP Half-Back as used in confined space rescue and other emergency situations. The student will have the opportunity to practice the application of the devices through “hands-on” sessions. Although there are no prerequisites for this class, a basic understanding of spinal immobilization and patient packaging skills would be a plus.

PPE: Technical Rescue

Class Minimum: 16

Confined Space - Awareness

Prerequisite: None

Description: This awareness-level course is intended for any emergency response personnel who might be required to respond to an incident involving a confined space. The material is presented in order to educate response personnel on how to protect themselves from potential hazards. The course, which was developed by the New Jersey State Police OEM Hazardous Materials Emergency Response Planning Unit, provides the student with a basic understanding of how to define and identify a confined space. Emphasis is placed on hazard recognition and the dangers associated with confined spaces. Various guidance and regulatory standards will be discussed. Case histories will be used to illustrate the potential dangers of confined space entry and rescue. A review of confined space rescue procedures is presented to the student. This course is intended to provide “Awareness” training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue

Incidents).

PPE: None Required

Class Minimum: 12

Confined Space Rescue - Operations Level

Prerequisites: Confined Space Awareness

Description: This operations-level course is intended for emergency response personnel who might be required to respond to an incident involving a confined space and perform entry and rescue operations. This course incorporates the NJSP OEM Hazardous Materials Emergency Response Planning Unit Confined Space Rescue Operations course with additional practical skills involving patient packaging, rigging and retrieval systems, supplied air breathing apparatus systems, and hardwire communications systems. This class involves primarily "hand-on" training. This course is intended to provide "Operations training as outlined in NFPA 1670 (Standard Operations and Training for Technical Rescue Incidents).

PPE: None Required

Class Minimum: 16

Confined Space Rescue - Technician Level

Prerequisite: Confined Space – Operations and Rope Rescue – Operations (or proof of equivalent training acceptable to lead instructor)

Description: This technician-level course is intended for emergency response personnel who might be required to respond to an incident involving a confined space and perform entry and rescue operations. The course will combine some classroom work with intense "hands-on" practical exercises. A thorough review of confined space rescue procedures is presented to the student. Advanced rigging skills, CSR Incident Management, atmospheric monitoring and ventilation, patient packaging, the proper use of self-contained and supplied-air breathing apparatus, and confined space communications equipment will be covered in great detail. This course is intended to provide "Technician" training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Rescue Incidents).

PPE: Technical Rescue

Class Minimum: 16

CPR for the BLS Provider

Description: The Basic Life Support (BLS) for Healthcare Providers Classroom Course is designed to provide healthcare professionals the ability to recognize and respond to several life-threatening emergencies, provide CPR, use an AED, and relieve choking in a safe, timely and effective manner.

PPE: None Required

Class Minimum: 10

CPR for the BLS Provider (Blended)

Description: Save time by taking the 1st part of the course online prior to the skill session. In class portion, includes a skill review and skill assessment. Participants must bring online certificate and photo identification to the classroom skills portion of the course.

PPE: None Required

Class Minimum: 10

Critical Patient Assessment

Prerequisite: Current EMT Certification

Description: This 9 CEU course combines Sick/Not Sick (Adult & Pediatric) as well as both national and New Jersey Trauma patient assessment and triage protocols. Participants will learn how to quickly and accurately perform patient assessment, collect information, and decide on the appropriate treatment protocol. During the class participants will reinforce his/her skills by performing actual patient assessments, taking vital signs, doing medical & trauma assessments and using their findings to make treatment and transport decisions.

PPE: Recommended to bring stethoscope

Class Minimum: 12

Cutting Torches for Fire/Rescue Operations

Prerequisite: None

Description: This program is intended for any emergency response personnel who may respond to an incident where the use of metal cutting torches and related equipment might be employed. This program will be primarily "hands-on", and will give the students the opportunity to practice with oxy-acetylene, exothermic, and gasoline (Petrogen) cutting torches. This program helps the student meet "Technician Level" requirements of various sections of NFPA 1670, including Vehicle and Machinery Rescue and Structural Collapse Rescue. This class would be beneficial for firefighters who might perform rapid intervention activities, or heavy forcible entry operations.

PPE: Firefighter or Technical Rescue

Class Minimum: 16

Defensive Driving

Prerequisite: Successful participants receive an insurance discount and point reductions. Highly interactive course providing participants with the knowledge necessary to reduce collisions and help your drivers choose safe, responsible, and lawful driving behaviors.

PPE: None Required

Class Minimum: 10

Designing Effective Attack Hose and Nozzle Systems

Prerequisites: Firefighter 1

Description: Designing an effective attack hose and nozzle "system" isn't often given much thought, yet it is incredibly important for fire-ground success. In this program we will identify some common issues that contribute to difficulties with attack hand-lines and provide tangible data to help departments make informed decisions when purchasing attack hose and nozzles and placing them into service. Some of the factors we will discuss are "hose creep", which is the trend of increasing internal diameter of hose above its marked diameter by manufacturers and why it's allowed, choosing the ideal attack hose diameter, modern friction loss coefficients, matching the proper nozzle to the attack hose and the differences in the nozzles. Attention will be given to nozzle performance and hand line manageability with relationship to crew size as well. Practical demonstrations will be conducted. Upon completion of the course, students should be able to return to their firehouses and evaluate their current attack hose-line setups to determine if they are effective and appropriate. 8 hour classroom and practical.

PPE: Firefighter *Students will need SCBA, Proper PPE, and spare cylinder*

Class Minimum: 12

Effective Deployment of Aerial and Apparatus Mounted Master Streams

Prerequisites: Firefighter 1

Description: When firefighting operations require the use of aerial and apparatus mounted master streams, there are many factors which will impact the effective delivery of water from both apparatus mounted as well as aerial devices. This program will examine design and installation of pumper mounted deluge guns as well as ladder pipes on both aerial and tower ladder apparatus. Practical exercises will illustrate apparatus placement and help identify the working capability of each different design and will offer some tactical options for more effective water delivery. Students will operate aerial ladders with pre-piped waterways, tower ladders and pumper mounted deluge guns and actually flow water. A series of "target practice" exercises will provide a more tangible understanding of the application and limitations of each type of master stream device. 8 hour classroom and practical.

PPE: Firefighter *Students will need SCBA, Proper PPE, and spare cylinder*

Class Minimum: 12

Elevator Emergencies

Prerequisite: None

Description: This program is intended for any emergency response personnel who might be called to an incident that involves a problem with an elevator. As our communities continue to change and grow, the number of responses to these types of incidents is on the rise. This class will combine classroom and practical exercises to give the student a better understanding of elevator emergencies. Topics to be covered include elevator types and components, safety concerns, Lock-out / Tag-out, Use of elevator door keys, Emergency control operation functions, and procedures to follow for trapped occupants.

PPE: Technical Rescue or equivalent

Class Minimum: 16

EMS in the Technical Rescue

Prerequisites: EMT-B and Awareness Level training in Confined Space Rescue, Trench Rescue, Rope Rescue, Vehicle Rescue, and Structural Collapse Rescue.

Description: This 12 hour program is intended for emergency response personnel who might be called to provide patient care during technical rescue operations. An evening lecture will discuss such medical concerns as “compartment syndrome”, “crush syndrome”, and hypothermia and how these conditions affect the patient and their long-term outcome after the incident. Going far beyond traditional vehicle rescue scenarios, students will participate in hands-on exercises in realistic conditions involving ABC management, patient packaging and techniques for removing the patient from the hazardous area. This class will combine classroom and practical exercises to give the student a better understanding of the demands of providing quality patient care in the technical rescue environment.

PPE: Technical Rescue

Class Minimum: 16

Engine Company Operations

Prerequisite: NJ State Fire Fighter Level 1

Description: This course is designed to cover the roles and responsibilities of the first and second arriving Engine Companies. This includes establishing a water source, stretching a dry attack line, stretching a wet attack line, line placement and searching off the line. This is a Friday night and all day Saturday and Sunday course. Friday night will be conducted in a classroom and Saturday and Sunday will be all day on the fire grounds. This course is along the same format as Truck Company Operations.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Everything Hose

Prerequisite: NJ State Fire Fighter Level 1

Description: This course will be all about hose...We will discuss streams, appliances and water supplies in the classroom on the first night. The Saturday/Sunday practical will be using all different types of hose in many capacities. We will be looking at the art of stretching handlines and utilizing different appliances on the fire ground.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Everything Truck

Prerequisite – NJ State Fire Fighter Level 1

Description: Everything Truck will challenge both the new firefighter and the seasoned veteran with a review of the most common fireground tasks associated with Ladder / Truck / Rescue company functions. An evening lecture will help set the stage for an entire day of “hands-on” training. Practical rotations include forcible entry, vertical ventilation, advanced ground ladder tactics, **VES** (Vent, Enter, Search), fireground search and rescue, and an overview of rapid intervention tactics that every firefighter should know. Recent advances in all areas of truck company work will be included during each training rotation. The hands-on training will be made even more realistic through the use of several “state of the art” training props. Be prepared for a full day of high intensity training...no watching from the sidelines in this class!

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Farmedic: Provider Training Program

Prerequisite: None

Description: While emergency response personnel are training to respond to suburban emergencies such as vehicle accidents, fires, and medical emergencies, seldom are they trained to respond to tractor roll-overs, PTO entanglements, pesticide exposures, and silo fires. Without adequate training, their efforts may be ineffective or even worsen the situation. This course focuses on the Farmedic program that trains personnel how to properly respond to rural emergencies. The program includes classroom work, videos, farm tours, modular practical stations, and “hands-on” extrications in real-life scenarios. This program has been very beneficial even in urban areas where personnel must deal with construction, landscaping, parks and industrial equipment. This course is designed to help achieve “Operations” and / or “Technician” level training in the Vehicle and Machinery Rescue discipline as outlined in NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue Incidents).

PPE: Technical Rescue or Firefighter

Class Minimum: 16

Field Triage of Injured Patients (Trauma Triage & Transport)

Prerequisite: NJ Certified EMT

Description: Emergency Medical Service (EMS) professionals will learn to identify the severity and type of injury, and determine whether a hospital or trauma facility would be the most appropriate to meet the needs of the patient. This is done by learning a process called “field triage.”

PPE: None Required

Class Minimum: 10

Firearms Awareness for Emergency Responders

Prerequisite: None. Open to certified EMTs and firefighters.

Description: This course will discuss various NON-crime scene scenarios in which EMTs, fire and rescue personnel may encounter and interact with firearms, ammunition and the hazardous/explosive components associated with ammunition re-loading. The discussion will include hunting accidents, firearms encountered in the household, law enforcement-involved MVCs, as well as firefighter responses to homes with stored firearms, ammunition, and the hazardous/explosive components used by private ammunition re-loaders. This class will also cover firearms and ammunition nomenclature and identification. There will be hands-on training provided to students in the safe handling of firearms incidental to providing safe patient care. Only replica (“red gun”) firearm models will be used. No actual firearms will be present in the classroom.

PPE: None Required

Class Minimum: 12

Fire Extinguishers for Emergency Service Personnel

Prerequisite: None

Description: This program is intended for any non-fire service emergency response personnel who may respond to an incident where the use of portable fire extinguishers is required. Students will have the opportunity to use various types of portable fire extinguishers on both Class A (ordinary combustibles) and Class B (flammable liquids) fires. The class will combine a short classroom session with extensive practical exercises. *** Each student will need to bring one (1) ABC dry powder extinguisher of at least 10 lb. capacity for use during the practical exercises, plus the PPE listed below.***

PPE: Technical Rescue or Firefighter

Class Minimum: 16

Firefighter I

Prerequisite: Member of Emergency Service Dept.

Description: This course is the New Jersey Firefighter 1 course. With a combination of classroom and hands-on participation, the new firefighter candidate will master the basic tasks of firematics. A written and a proficiency exam will be given at the end of the course. **A passing grade of 70% is required by the State.** Some topics covered are Right-to-Know, safety, medical care, knot tying, ICS-100, fire behavior, chemistry of fire, SCBA's, extinguishers, forcible entry, ladders, rescue procedures, ventilation, water supply, hose and nozzle handling, salvage and overhaul, sprinklers, communications, Blood borne Pathogens, Wildland Fires, Utility emergencies, Thermal imaging camera, rope rescue and Haz-Mat Awareness.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Firefighter II

Prerequisites: NJ State Fire Fighter Level 1, Haz-Mat Operations, and ICS 200

Description: This course is for the firefighter who wants to expand his/her knowledge of firematics. It takes you into more intricate aspects of firematics; Thermal imaging camera, vehicle fires, advanced entry problems, oriented search, building construction, fire streams, fire scene operations, fire fighting with Class A foam, self rescue techniques, reading smoke, extrication awareness, alarm systems, propane, and residential operations. **A passing grade of 70% is required by the state.**

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Firefighter Safety and Survival

Prerequisite: NJ State Fire Fighter Level 1

Description: This 24 hour course will cover the latest Safety and Survival techniques to saving ourselves. There will be numerous stations covering many subject areas.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Firefighter Survival & RIC Operations (Combined)

Prerequisites: NJ State Firefighter Level 1 and RIC Awareness

Description: This class will combine the latest Safety and Survival techniques for saving ourselves along with current techniques and procedures in Rapid Intervention Company (RIC) Operations.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Fire Inspector Course

Description: This 90 hour course will provide students with the knowledge and skills required for eligibility to sit for the New Jersey Fire Inspector exam. This class will be held on Monday and Wednesday evenings. **Textbooks will NOT be provided. ALL students must purchase the required textbooks and manuals listed below prior to attending class, phone numbers are listed:**

1. 2006 International Fire Code-New Jersey Edition Item # 3400L06NJ (International Code Council-1-888-422-7233).
2. IFSTA Fire Inspector & Code Enforcement Pacakage-7th Edition ISBN#978-0-87939-348-9 (Fire Protection Publications 1-800-654-4055).
3. New Jersey State Fire Code book is \$75.00. It will be available the first night of class, you must bring a check made out to Hunterdon County to cover the cost of the required book.

PPE: None

Class Minimum: 12

Fire Officer I

Prerequisite: NJ State Fire Fighter Level 1

Description: The Fire Officer series is designed to build the skills necessary to be an effective fire service leader. The Fire Officer I course is the first course in the series and is designed for firefighters who aspire to the position of company officer. The course is designed to meet the educational and time requirements of NFPA 1021, *Standard for Fire Officer Professional qualifications, 2003 Edition*, for Fire Officer I and N.J.A.C. 5:73-8.2 Qualifications for Fire Officer I. Students who successfully complete the course will be eligible to take the NJ State Fire Officer I certification test. The certification test will be given approximately two (2) weeks after the last day of class. This course content will include a mixture of lectures, case studies, and classroom exercises. The goal is to stimulate classroom interaction centered on what should be doing versus what we are actually doing as company officers. This course acquaints the student with the role of the company officer in a fire department and introduces basic management and leadership theories, practices, and functions. Other topics include firefighter health and safety, managing resources, planning and readiness, fire prevention, building construction, and risk management. The course concludes with an introduction to the basic principles and methods associated with fire ground tactics and strategy as required of the company officer.

PPE: None Required

Class Minimum: 12

Fire Officer Refresher and Skill Building

Prerequisite: NJ State Firefighter Level I

Description: This course is designed to develop a better understanding of the roles and responsibilities of a Company Officer in preparing their company for incident operations. In addition to clarifying the transition from firefighter to company officer, and the new roles relating to leadership and safety. This course is designed for company officers, acting company officers and senior firefighters responsible for the management of a single fire company at an emergency incident and those officers who are responsible for company readiness, personnel safety and leadership as it related to company operation.

Target Audience: Company officers or senior firefighters responsible for the management of a single fire company during fire ground operations, (NFPA 1021, *Standard for Fire Officer Professional Qualifications, Levels I and II*). Senior firefighters who may at times assume the responsibilities of the company officer (NFPA 1001, *Standard for Fire Fighter Professional Qualifications, and Level II*).

PPE: None Required

Class Minimum: 12

Forcible Entry the Basics and Beyond

Prerequisite: NJ State Firefighter Level 1

Description: With few opportunities available to drill on Forcible Entry Techniques, we can easily lose these vital skills. Emphasizing hands-on training, this course will include a wide variety of conventional and through-the-lock techniques as well as methods for overcoming padlocks and window bars to name a few. Full firefighter PPE and safety glasses/goggles required.

PPE: SCBA optional

Class Minimum: 10

Grip-Hoist and Heavy Rigging Review

Prerequisite: None

Description: This four hour course will review the proper use of the TU-28 and TU-32 Grip Hoist manual winch devices, along with a general review of basic heavy rigging equipment as used in technical rescue and other emergency situations. The student will have the opportunity to practice the application of the devices through "hands-on" sessions. Although there are no prerequisites for this class, previous attendance at a *Heavy Lifting and Moving* class or a basic understanding of heavy rigging skills would be a plus.

PPE: Technical Rescue

Class Minimum: 16

Hands-On Advance Forcible Entry

Prerequisite: Firefighter 1

Description: An intensive class on alternatives to conventional methods. Emphasis on overcoming, chains/padlocks, barred windows, through the lock and advanced use of the irons.

PPE: Turnout gear and eye protection

Class Minimum: 12

Hazard Communication

Prerequisite: None

Description: The Hazard Communication Standard (HCS) is now aligned with the Global Harmonized System of Classification and Labeling of Chemicals (GHS). This update to the Hazard Communication Standard (HCS) will provide a common and coherent approach to classifying chemicals and communicating hazard information on labels and safety data sheets.

PPE: None Required

Class Minimum: 10

Hazards of Flood Rescue Response

Prerequisite: Water Rescue Awareness

Description: This eight hour / two evening course is intended to provide the rescuer with a greater understanding of the hazards presented during operations within a flood zone. Flood rescue responses involve hazards not found during swiftwater responses under normal water level conditions. This course would be of great benefit to any department that even occasionally experiences flood conditions involving still or moving water. As history has shown with major events such as Floyd, Irene, and countless unnamed thunderstorms, this could happen anywhere! Be better prepared to operate more safely during the next flood event.

PPE: None Required

Class Minimum: 12

Hazardous Materials-Level 1 First Responder Awareness

Prerequisite: None

Description: The basic 4 hour course will explain what hazardous materials incidents are, as well as giving the students skills to detect the presence of hazardous materials. The instruction includes an overview of how incidents are classified into levels and on introductions to the Incident Command System. Also covered are the roles and notification requirements of municipal, county, and state organizations. This level will serve as a prerequisite to all other levels offered in the series.

PPE: None Required

Class Minimum: 12

Hazardous Materials-Level 2 First Responder Operations

Prerequisite: HazMat Awareness, ICS 100

Description: The eight-hour course provides training for those personnel who have some protective equipment and other resources that would enable them to take further defensive actions at a Hazardous Materials scene. This course is a prerequisite for the HazMat Technician Course.

PPE: None Required

Class Minimum: 12

Heavy Lifting and Moving for Fire/Rescue Operations

Prerequisite: None

Description: This course is designed to teach emergency response personnel basic techniques and operations for lifting and moving heavy objects during rescue operations. Personnel will learn how to use basic mechanical advantage tools to move heavy objects in scenarios that are designed to challenge the students. Team building exercises are an integral portion of this program. High and low pressure air bag operations will be covered extensively. Basic principles of heavy rigging and the use of cranes and wreckers during rescue operations will be reviewed as well. This course is designed to help achieve "Operations" and / or "Technician" level training in the various rescue disciplines outlined in NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue Incidents). The material within this course would also be of tremendous value to personnel who participate in firefighter rapid intervention (FAST / RIT) operations.

PPE: Technical Rescue

Class Minimum: 16

Highway Safety for First Responders

Prerequisite: None

Description: Students completing this course will be able to enhance responder and public safety at motor vehicle accidents and other highway incidents by implementing responder safe work practices and establishing emergency operations work zones that allow for restricted traffic movement options (versus full road closure) to be implemented wherever possible.

Students will need: Pen/pencil, notebook

PPE: None Required

Class Minimum: 12

Ice Rescue – Awareness / Operations

Prerequisite: Water Rescue – Awareness or equivalent

Description: This program will cover both awareness and operations-level skills for ice rescue operations. The class will cover basic ice rescue techniques through a short lecture session followed by extensive "hands-on" practical operations in actual ice rescue / cold water situations. Topics include ice formation, safety during ice rescue operations, PPE for rescue operations, hypothermia, "reach-throw-row-go" order of rescue operations, proper use of ice rescue suits, and contact rescues.

PPE: Each student should bring a USCG – approved Type III or V Personal Floatation Device, any thermal protection suits available to their agency, and suitable helmet to class. Anyone without the required PPE should contact the Training Center at least seven days prior to the class in order to make arrangements.

Class Minimum: 16

Incident Safety Officer

Prerequisite: NJ State Firefighter Level I or 5 years experience in an emergency service organization.

Description: This course from the NFA examines the Safety Officer's role at emergency response situations. A specific focus on operations within an incident command system as a safety officer is the main theme.

PPE: None Required

Class Minimum: 12

ICS 100 / NIMS 700

Prerequisites: None

Description: ICS 100, Introduction to the Incident Command System, introduces the Incident Command System (ICS) and provides the foundation for higher level ICS training. This course describes the history, features and principles, and organizational structure of the Incident Command System. It also explains the relationship between ICS and the National Incident Management System (NIMS).

Class Minimum: 12

ICS 200

Prerequisites: ICS 100

Description: ICS 200 is designed to enable personnel to operate efficiently during an incident or event within the Incident Command System (ICS). ICS-200 provides training on and resources for personnel who are likely to assume a supervisory position within the ICS. This is the second in a series of ICS courses designed to meet the all-hazard, all-agency NIMS ICS requirement for operational personnel.

Class Minimum: 12

ICS 300

Prerequisites: ICS100 & ICS200

Description: This course covers organization and staffing, organizing for incidents and events, resource management, and air operation.

Class Minimum: 16

ICS 400

Prerequisites: ICS100, ICS200 & ICS300

Description: This course expands upon the material covered in ICS 100 through ICS 300. ICS 400 focuses on large single-agency and complex multi-agency/multi-jurisdictional incident response. The course addresses area command and staff issues, as well as the planning, logistical and fiscal considerations associated with complex incident management and interagency coordination.

Class Minimum: 16

Industrial Entrapments & Impalement Emergencies

Prerequisite: Vehicle Rescue Operations Level

Description: This eight hour course will present the student with various unusual rescue scenarios ranging from simple finger ring removals to complex limb entrapments in machinery. The rescue and treatment of impaled objects will also be covered. This course combines a classroom lecture followed by a full session of practical exercises. This course will help agencies obtain "Technician Level" training for their personnel as per NFPA 1670, and Level II training for the individual rescuer as per NFPA 1006.

Required PPE: Technical Rescue or Firefighter

Leadership and Team Building Strategies

Prerequisite: Anyone in a leadership capacity or aspiring to be.

Description: This course is designed for the Fire Officer and Administration Staff Member. As a manager in today's environment you will require skills to effectively assess and resolve issues quickly and efficiently on the fire ground as well as at the station. The course will show how to manage difficult people by identifying criteria and selecting correct interventions to resolve problems. This will strengthen the Fire Officer and Administrative Staff Member's interpersonal skills. After the course students will be able to apply learned skills and concepts and apply to their respective organization. Topics will include Leadership styles, team and relationship building, conflict resolution, development of members, task management, adaptability, communications, personal development, time management, evaluation of others and discipline. This will be accomplished through lecture and group participation.

PPE: None Required

Class Minimum: 12

LIVE BURN NIGHTS

Prerequisites: Firefighter 1

Description: The H.C.E.S.T.C. will be offering a live burn for any certified firefighter who wants to refresh their skills on fire extinguishment. Each "Live Burn" session will be limited to the first 12 qualified applicants. The burns begin promptly at 7pm.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Max Students: 10

MPD Rope Rescue Rigging Review

Prerequisite: None

Description: This four hour course will introduce the student to the basic use, care and maintenance of the CMC Multi-Purpose Device (MPD) as used in rope rescue operations. The student will learn the basic uses of the MPD as both a descent control device as well as a high efficiency pulley and progress capture for main line rope systems. The MPD will also be used in its capacity as a belay device. This course combines both a short classroom lecture followed by a series of practical demonstrations. This course will help agencies reinforce both "Operations Level" and "Technician Level" training for their personnel as per NFPA 1670, and Level 1 and 2 training for the individual rescuer as per NFPA 1006.

Required PPE: Technical Rescue

Class Minimum: 10

Paratech Rescue Struts as Initial Collapse Rescue Shoring

Prerequisite: Structural Collapse Rescue Awareness

Description: This one day course is intended to provide the rescuer with a basic understanding of the use of Paratech Rescue Support Struts in structural collapse rescue situations. The student will have the opportunity to construct door, window, vertical, horizontal, and raker shores with the Paratech struts. This course would be of great benefit to HCTRTF members as well as fire - rescue agencies that provide RIT / RIC services. While not a prerequisite, a basic understanding of collapse rescue shoring prior to class would be a plus.

PPE: Technical Rescue or Firefighter

Class Minimum: 16

Pump Operations-Basic

Prerequisite: None

Description: This program gives Firefighters the basics needed to properly operate a pump and a fire department engine. The program is based on the IFSTA Pumping Apparatus Driver/Operator Handbook. Students will leave the program with the knowledge of how water is supplied and distributed on the fire ground. The class is both lecture and hands-on in nature.

PPE: Firefighter

Class Minimum: 16

Pump Operations-Advanced

Prerequisite: Pump Operations-Basic

Description: The course is designed for the novice pump operator who is looking to become a master at pumping his/her fire department engine. The course will review the basic fundamentals of the fire ground operation and the duties of a pump operator and then go into further detail on apparatus maintenance, emergency on the fire ground, in-line pumping, developing hand lines and master streams, relay operations, drafting, hydrant operations, small and large diameter hose. Hydraulics and friction loss will be discussed.

PPE: Firefighter

Class Minimum: 16

Rapid Intervention Crew Awareness

Prerequisite: None

Description: Program provides an overview of what a Firefighter Assist and Search Team (FAST) is, as a Rapid Intervention Company (RIT). Program reviews NFPA Standard 1561 on Fire Department Incident Management System and NFPA standard 1500 on Fire Department Occupational Safety and Health Program which focus on why a Rapid Intervention Team is required, Who makes up the (RIT) personnel, establishing a (RIT) unit with written Guidelines, minimum equipment requirements, and table top scenarios using (RIT) teams.

PPE: None Required

Class Minimum: 12

Rapid Intervention Crew

Prerequisite: NJ State Firefighter Level I and RIC Awareness

Description: With the ever changing world we live in today as members of the fire service we must prepare to operate under any circumstance. This is the basis of this training course. The classroom session will prepare you to teach your members an awareness level and provide you with the information needed to bring your members up to a common standard in Rapid Intervention. The operations (Hands on Session) will be performing several stations in victim removal with some of the latest techniques being taught thru out the fire service.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Rapid Intervention Crew Operations

Prerequisite: NJ State Firefighter Level I and RIC Awareness

Description: This course will cover current techniques and procedures in Rapid Intervention Company (RIC) Operations. This course is all hands-on and exceptionally physically demanding. This 24 hour course meets and exceeds the State's guidelines for Rapid Intervention Crew.

Stations will cover many subject areas including:

- SCBA/Mask Confidence Skills
- Below Grade Rescue
- Upper Floor Rescue
- Downed Firefighter Rescue Drills (Nance, Pittsburg, Denver Drill)
- Scenarios

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 12

Rapid Intervention Crew Challenge

Prerequisites: All members must be NJ DFS Firefighter 1, RIC Awareness, RIC Operations

Description: This is a day to come and show off your RIC's skills. Your team will face other teams in a battle of the " Best of the Best" for skill challenges and timed scenarios. Team shall consist of 4-6 qualified RIC members of your company.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Cost: None (To all)

Class Minimum: 12

Rapid Intervention Officer- Strategic Planning

Prerequisite: NJ State Firefighter Level I, RIC Awareness, RIC Operations, ICS 100, 200, 300

Description: This 8 hour course will help officers or up incoming officers of a RIC develop plans prior to arrival. We also will discuss drill possibilities and exactly what your job as an officer is when on a scene acting as a RIC. The second half of the class will be situational planning. The instructor will give the students scenarios and the class will develop plans.

PPE: None Required

Class Minimum: 12

Rescue and the NFPA Standards

Prerequisite: None

Description: Does your department's rescue program comply with nationally accepted consensus standards? Does your department really meet the requirements? Are you sure? This class will focus on the NFPA regulations that apply to rescue operations in an effort to better acquaint personnel with the requirements of various rescue-related standards, specifically NFPA 1500, 1006, 1670, and 1983. This class is especially geared to line and training officers as well as managers seeking a better understanding of the standards and knowing what areas need to be addressed to be compliant. This program will be valuable especially to those agencies just starting to provide rescue services, or to those considering an expansion of the services that they provide.

PPE: None Required

Class Minimum: 12

Rope and Knots Review

Prerequisite: None

Description: This four hour course will focus on the knots, bends and hitches used for fire rescue operations using both rope and webbing. Basic anchor configurations will also be addressed.

Required PPE: Technical Rescue

Class Minimum: 10

Class Maximum: 24

Rope Rescue – Awareness Level

Prerequisites: None

Description: This program is intended for any emergency response personnel who may respond to an incident where rope rescue systems might be employed. This entry-level program, based upon the requirements of NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue Incidents), will provide the student with a basic understanding of how rope-based rescue systems can provide access to elevated and below grade locations. The student will gain a basic understanding of proper incident size-up, resource identification, safety issues, applications of rope-based systems, and an introduction to rope rescue equipment and terminology. This course also forms the required foundation for Operations and Technician-level training in rope rescue.

PPE: None Required

Class Minimum: 12

Rope Rescue – Low Angle Operations Level

Prerequisite: Rope Rescue - Awareness

Description: This operations-level course is intended for emergency response personnel who will be required to respond to an incident involving low angle rope rescue operations, such as embankment raises, ladder-based systems and basic fire ground rescue operations. The course also forms the foundation for the "High Angle – Operations Level" program. The course will combine some classroom work with intense "hands-on" practical exercises. Subjects to be covered include safety, rope care and maintenance, knots, basic rigging skills, anchors, patient packaging, basic mechanical advantage systems, hauling systems in the low angle environment, lowering systems, and belay systems. This course is intended to meet and exceed "Low Angle Operations-Level" training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue Incidents).

PPE: Technical Rescue

Class Minimum: 16

Rope Rescue - High Angle Operations Level

Prerequisites: Rope Rescue Awareness and Rope Rescue –Low Angle Operations Level (or proof of equivalent training acceptable to lead instructor).

Description: This operations-level course is intended for emergency response personnel who will be required to respond to an incident involving high angle rope rescue operations, such as rescue from elevated structures or below-grade locations. The course also forms the foundation for the "Rope Rescue – Technician Level" program. The course will combine some classroom work with intense "hands-on" practical exercises. Subjects to be covered include a review of safety, rope care and maintenance, knots, advanced rigging skills, anchors, patient packaging and litter tending, mechanical advantage systems, hauling systems in the high angle environment, lowering systems in the high angle environment, and

belay systems, and lowering systems. This course is intended to meet and exceed “High Angle Operations-Level” training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue Incidents).

PPE: Technical Rescue

Class Minimum: 16

Rope Rescue – Technician Level

Prerequisites: Rope Rescue – Operations / High Angle (or proof of equivalent training acceptable to lead instructor).

Description: This course is intended to take personnel who are currently operating at the Operations-level and refine those skills, while adding tools and techniques that will allow them to access the horizontal plane in the rope rescue environment. Subjects to be covered include: Basic review of operations-level skills, knot passing, advanced anchor systems, and highline rope systems. Personnel will operate in realistic conditions using the latest equipment available for rope rescue operations. Students are expected to be proficient with all operations-level skills before the start of this class. This course is intended to provide “Technician-Level” training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Rescue Incidents).

PPE: Technical Rescue

Class Minimum: 16

Rope Rescue Belay Systems

Prerequisite: Rope Rescue Awareness

Description: This four hour program will focus on the effectiveness of new and existing rope rescue belay systems, and provide a “backyard analysis” of the systems through some hands-on practical exercises. Systems will include the Munter Hitch, Tandem Prussik Belay, 540 Belay Device, CMC Multi-Purpose Device (MPD), and the Petzl I’d. Students are encouraged to bring the systems that they use in order to see how they perform in real-life, non-destructive simulations.

PPE: Technical Rescue

Class Minimum: 16

Rope Rescue Skills Review

Prerequisite: Rope Rescue Operations – Low Angle or proof of equivalent qualifications acceptable to the lead instructor.

Description: This eight hour class will review basic rope systems for hauling and lowering operations as well as for belay systems. The students will also be introduced to new equipment for rope rescue such as the CMC MPD. This course will help agencies review “Operations Level” training for their personnel as per NFPA 1670, and Level II training for the individual rescuer as per NFPA 1006.

Required PPE: Technical Rescue

Class Minimum: 10

Class Maximum: 24

Rope Rescue Systems Review

Prerequisite: None

Description: This course is intended as a review for emergency response personnel who will be required to respond to an incident involving basic rope rescue operations, such as embankment raises, ladder-based systems and fireground rescue operations. Subjects to be covered include basic rigging skills, anchors, mechanical advantage systems, hauling systems in the low angle environment, lowering systems, and belay systems. Although there are no prerequisites for this program, previous rope rescue training or at least a basic understanding of fire-rescue knots would aid in the understanding of the course topics.

PPE: Technical Rescue

Class Minimum: 16

SCBA Refresher and Confidence

Prerequisite: NJ DFS Firefighter Level 1

Description: This class is a must for the rookie or veteran firefighter. This class will take students through the basic workings of the air pack to safely operating in an IDLH. The course covers proper, timed donning techniques, low profile, full escape, entanglement and other emergency procedures. A must for all interior firefighters! You can also use this course to count as your annual refresher that OSHA requires.

PPE: ALL PPE and spare cylinder

Class Minimum: 16

Sick Not Sick (Adult)

Prerequisite: NJ Certified EMT

Description: Sick/Not Sick is designed to help EMS personnel develop rapid assessment skills by introducing a workable formula that both inexperienced and experienced providers can use. Sick/Not Sick teaches EMS personnel how to quickly collect information and discern what details are important in order to provide immediate initial care.

PPE: None Required

Class Minimum: 10

Sick Not Sick/Pediatric

Prerequisite: NJ Certified EMT

Description: Sick/Not Sick Pediatric is designed to help EMS personnel develop rapid patient assessment skills for younger patients by introducing a unique formula that teaches EMS personnel how to quickly discern what details are important in order to provide immediate initial care for our youngest patients.

PPE: None Required

Class Minimum: 10

Silo and Grain Bin Rescue

Prerequisite: Confined Space Operations Level *and* Rope Rescue Low Angle Operations Level

Description: This twenty hour course will focus on confined space rescue operations that occur in silos and grain bins. The student will have the opportunity to practice various rescue techniques in actual silos and grain bins. An emphasis will be placed on special rigging methods utilized to deal with the unique hazards found in these environments. Students will also practice methods used to rescue victims from engulfment situations at an offsite location. This is not an awareness level course – students are expected to be well versed in both confined space and rope rescue operations. While focused on the agricultural environment, much if not all of the material could be applied to industrial storage scenarios as well.

PPE: Technical Rescue

Class Minimum: 16

Special Operations Company Officer

Prerequisites: None

Description: This course is intended for personnel serving as rescue or special operations company officer within their agency, or who may wish to do so in the future. Topics such as leadership, training activities, risk management, accountability, incident size-up, and standard operating procedures will be discussed. This course would be beneficial to not only rescue company officers, but other special operations team leaders and officers including RIT/FAST and Haz-Mat company officers.

PPE: None Required

Class Minimum: 12

Special Operations Rescue Technician – Level 1

Prerequisite: None

Description: This intense and demanding course is not for everybody. Individuals considering this program must be prepared both mentally and physically for a challenging course of rescue instruction. This course is intended to take the new member of a fire or EMS rescue unit from an entry-level “probie” to that of a trained, functional crew member capable of responding to the majority of common rescue incidents. By the end of this course, students will possess operations-level training in Vehicle Rescue, Machinery Rescue, Rope Rescue, and Confined Space Rescue, and awareness-level training in other rescue disciplines. In addition, other modules will cover Heavy Lifting and Moving, Torch Operations, Power Saw Operations, Haz-Mat Awareness and Operations, CBRNE Awareness and Operations, SCBA, Elevator Emergencies, and a host of other skills. The course will combine the required classroom work with intense “hands-on” practical sessions. Students will be required to pass written and practical exams in order to successfully pass this course. Skills Evaluations will be completed and documented and the results will be made available to the student’s agency to document the satisfactory completion of specific skills. Team building, unit integrity, and core values specific to special operations units will be a central focus and will be constantly reinforced throughout the program. This course is intended to meet and exceed the requirements as outlined in NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue Incidents) and NFPA 1006 (Standard for Technical Rescuer Professional Qualifications). This course forms the basis of future training with the SORT – Level 2 program.

PPE: Technical Rescue

Class Minimum: 16

Stretching and Operating Extended Length Attack Hose-lines

Prerequisites: Firefighter 1

Description: Operating outside of the reach of standard pre-connected hose-lines can be difficult and is becoming a more common necessity with larger floor plan homes and greater setbacks. This course will identify viable options for choosing long length pre-connected and static hose-bed stretches for situations where fires are beyond the reach of standard length pre-connected hose-lines. The course will discuss hydraulics as they relate to longest practical hose lengths, single diameter long hose stretches, step-down long hose stretches and the use of gated wyes. Selection and flow of nozzles will also be reviewed. Practical exercises will demonstrate positive and negative consequences of various options for long hose stretches. The principal goal of the course is to equip engine companies with the ability to set up for success in stretching the initial attack line at whatever length it must run to. 8 hour Classroom and Practical

PPE: Firefighter *Students will need SCBA, Proper PPE, and spare cylinder*

Class Minimum: 12

Structural Collapse Rescue – Awareness

Prerequisite: None

Description: This course is intended for all emergency response personnel who might respond to an incident involving a structural collapse. Material to be covered includes: Scene organization and safety, Available resources for structural collapse rescue, Hazards at structural collapse incidents, Basic hazard control operations, Collapse patterns and void formation types, Search and structural stability marking systems, Introduction to the Urban Search and Rescue System, and the procedures for rescuing surface or “lightly trapped” victims from a structural collapse. This course should be required for agencies providing Heavy Rescue or FAST services, but will be important to all personnel who might be faced with an incident involving structural collapse, whether due to natural or man-made events. This course is intended to provide “Awareness-Level” training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Rescue Incidents).

PPE: None Required

Class Minimum: 12

Structural Collapse Rescue –Operations Level

Prerequisites: Haz-Mat, Rope, Confined Space Operations-Level Training, plus Structural Collapse Rescue Awareness-Level Training.

Description: This class is intended to provide the student with hands-on training for responding to and operating at the scene of collapse rescue incidents involving the failure of “light –framed ordinary” or “masonry” construction building. Practical exercises will emphasize safety while developing such skills as basic shoring, void search and rescue, hazard recognition and control, and basic extrication operations to remove trapped victims. This course is designed to help achieve “Operations” level training in the Structural Collapse Rescue discipline as outlined in NFPA 1670 (Standard on Operations and Training for Technical Rescue Incidents).

PPE: Technical Rescue

Class Minimum: 16

Structural Collapse Rescue – Shoring Review and Updates

Prerequisite: Structural Collapse Ops or proof of equivalent training

Description: This program will give the student the opportunity to review the procedures for constructing the most common types of shoring systems as presented in the Structural Collapse Operations Level program. In addition, recent changes in the FEMA structural collapse technician shoring program will be introduced and practiced. The Paratech Raker system and the use of Paratech struts for initial shoring will also be reviewed. Evening lecture followed by a full day of practical exercises.

PPE: Technical Rescue

Class Minimum: 16

Survival Weekend

Prerequisites: NJ State Firefighter Level I, Firefighter Survival (or equivalent of)

Description: This class will challenge even the most veteran of firefighters in their skills of survival on a fire ground. Students will have brief review on Survival skills in the classroom via a lecture and will continue with practical sessions all weekend long. This class will make you think and react to different scenarios that may occur while fighting a simple dwelling fire to accidents that occur at major incidents. This is a must class for firefighters of all ages who want to be prepared to survive the unexpected and get out alive.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Tactical Considerations for the Rescue of Firefighters Trapped By Structural Collapse (4 Hours)

Prerequisite: None

Description: This four hour course will review basic considerations for rapid intervention, and expand those concepts to deal specifically with incidents where firefighters are trapped as a result of a structural collapse. Discussion of various strategies and tactics will be the focus of this program. This course would be of benefit to chief officers, RIC/RIT officers, and to all firefighters that may be called upon to assist at these critical incidents.

Required PPE: None

Class Minimum: 10

Class Maximum: 24

Thermal Imaging Camera- Advantages and Disadvantages

Prerequisite: NJ State Firefighter Level I

This class is an introduction course to basic uses of thermal imaging in the Fire Service. This course will cover understanding thermal imaging, thermal camera use in fire attack, search & rescue, hazardous materials, and wild land fires. Participants will learn how Thermal Imaging Cameras work, different options and also learn common mistakes made by Fire Fighters when using Thermal Imaging Cameras and how they commonly get into trouble with our new technology. Classroom instruction includes thermal imaging theory, basic operation of different TI cameras, and thermal signature interpretation.

Practical practices in using the camera will follow to end the evening.

PPE: Firefighter *Students will need SCBA, Proper PPE, and Spare Cylinder*

Class Minimum: 16

Trench Rescue – Awareness Level

Prerequisites: None

Description: As our rural communities continue to grow, new construction and utility repair work force contractors in every community to open trenches every single day. These trenches and excavations pose unique and serious dangers in the event of an accident or emergency. The HCESTC presents this program which is intended for any emergency response personnel who might be called to the scene of an emergency involving a trench or excavation. Material to be covered within this program includes: Proper scene size-up and hazard recognition; Resources required for trench rescue incidents; Scene management and ICS / IMS; Typical trench emergencies and trench collapse patterns; Overview of trench rescue procedures; Hazards unique to trench and excavations, along with mitigation techniques; Procedures for rapid, non-entry rescue of minimally injured victims. This program is intended for all emergency response personnel, and forms the basis for Operations and Technician level trench rescue training. This course is intended to provide “Awareness” training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue Incidents).

PPE: None Required

Class Minimum: 12

Trench Rescue – Operations Level

Prerequisite: Trench Rescue – Awareness (or proof of equivalent training acceptable to lead instructor)

Description: This course presents intensive, “hands-on” training to emergency personnel who are expected to operate at a trench emergency. Material to be covered includes: OSHA regulations, Implementation of pre-entry procedures, Soil type identification, Hazard control operations, locating victims and determining victim survivability profiles, entry briefings and procedures, use of “traditional sheeting and shoring techniques” involving both timber and pneumatic shoring equipment, sloping and benching procedures, procedures for extrication and removal of trapped victims. Personnel will operate in realistic conditions using the latest equipment available, in addition to learning how to utilize “community resources” that’s probably available in every community. This course is intended to provide “Operations” training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue Incidents).

PPE: Technical Rescue

Class Minimum: 16

Trench Rescue – Operations Level Refresher

Prerequisites: Trench Rescue Operations Level

Description: This eight hour course will review trench rescue techniques presented in the Trench Rescue – Operations Level program. This course combines both a short classroom session followed by the balance of the day conducting strenuous “hands-on” practical exercises. This course will help agencies reinforce “Operations Level” training for their personnel as per NFPA 1670, and Level 1 training for the individual rescuer as per NFPA 1006.

PPE: Technical Rescue

Trench Rescue-Technician Level

Prerequisites: Trench Rescue Awareness and Trench Rescue-Operations Level (or proof of equivalent training acceptable to lead instructor).

Description: This course presents intensive, “hands-on” training to emergency personnel who are expected to operate at the technician-level at a trench emergency. Material to be covered includes: Basic review of operations-level skills, Implementation of pre-entry procedures; Soil type identification; Advanced hazard control operations; Entry briefings and procedures; Use of advanced techniques in conjunction with “traditional sheeting and shoring operations” involving both timber and pneumatic shoring equipment in intersecting and deep wall trenches; Procedures for extrication and removal of trapped victims. Personnel will operate in realistic conditions using the latest equipment available for trench rescue operations. This course is intended to provide “Technician-Level” training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Rescue Incidents).

PPE: Technical Rescue

Class Minimum: 16

Trench Rescue-Technician Level Refresher

Prerequisites: Trench Rescue Technician

Description: This eight hour course will review trench rescue techniques presented in the Trench Rescue – Technician Level program. This course combines both a short classroom session followed by the balance of the day conducting strenuous “hands-on” practical exercises. This course will help agencies reinforce “Technician Level” training for their personnel as per NFPA 1670, and Level 2 training for the individual rescuer as per NFPA 1006.

PPE: Technical Rescue

Trench Rescue – Advanced Shoring Techniques

Prerequisites: Trench Rescue Technician Level

Description: This twenty hour course will introduce the student to advanced techniques for shoring unusual conditions that may be found in trenches. Topics will include “repair hole” shoring, end wall shoring, excavation shoring, and isolation techniques used to protect the patient during difficult rescue operations. This course combines both a short classroom lecture followed by two days of strenuous “hands-on” practical exercises. It is strongly recommended that the student take the Trench Technician Refresher course if it has been some time since the student last operated in a trench. This course will help agencies reinforce “Technician Level” training for their personnel as per NFPA 1670, and Level 2 training for the individual rescuer as per NFPA 1006.

PPE: Technical Rescue

Class Minimum: 12

Triage & Trauma Patient Assessment

Prerequisite: EMT

Description: Participants will learn how to: perform a trauma center and which patients require transport to a trauma center and which patients can go to an ER; perform triage assessments; and how to use NJ Trauma Triage tags as part of an integrated response to an MCI.

PPE: None

Class Minimum: 12

Truck Company Operations

Prerequisite: NJ State Firefighter Level I

Description: Truck Company Operations are performed by all fire departments, even if the department does not have a truck. This course will address the nine (9) functions of a truck company and will be applied during the practical. Subjects Covered: Forcible entry; ventilation; rescue; laddering; salvage; overhaul; checking for fire extension; ladder-pipe operations; master streams and utility control. All topics learned in the classroom will be demonstrated in the practical session. Practical session will include (5) stations throughout the Academy site. Area includes; advanced forcible entry, cutting wood, metal and concrete with saws, roof cutting operations from a ladder, search and rescue exercises. This course is designed for the seasoned firefighter. Students will participate in several HANDS-ON scenarios where they will be required a multi-task and work as a team to accomplish the task.

PPE: Firefighter *Students will need SCBA, Proper PPE, and spare cylinder*

Class Minimum: 16

Understanding & Attacking Fires in Concealed Spaces

Prerequisites: Firefighter 1

Description: Fires in concealed void spaces can present challenges to access and extinguish. This course will identify some commonly found concealed spaces which contribute to fire control difficulties and present several strategies for combating them. Building construction principles

will be reviewed as they relate to the formation and fire behavior in spaces such as attics, knee walls, balloon construction, floor-ceiling void spaces, pipe chases, facades and overhangs. The course will also review effective deployment of engine and truck companies to help identify adequate resources when dealing with such fires. 3 hour classroom only.

PPE: None

Class Minimum: 12

USAR Technical Search Operations - Basic

Prerequisite: Member of HCTRTF, Structural Collapse Rescue Awareness,

Description: This one day course is intended to provide the rescuer with a basic understanding of the use of technical search equipment provided in the Hasty Search Kit including the Search Systems Recon III camera and the Delsar LifeDetector victim locator system. Students will also have the opportunity to try several different hole boring options to gain access to collapse voids in wood frame, masonry, and concrete buildings.

PPE: Technical Rescue

Class Minimum: 16

Utility Emergencies

Prerequisites: None

Description: We will introduce the student to the basics of electricity (Voltage, Current, Resistance, Generation, and Transmission & Distribution). Heighten the awareness of potential electrical hazards commonly encountered on emergency scenes. Illustrate injuries and symptoms caused by inadvertent contact with "LIVE" electrical circuits. Be able to identify and avoid potential electrical hazards, common electrical terms (Voltage, Current, & Resistance), electrical installations, typical electric system, typical residential system, faulty electrical equipment, arcing, overheating, effects of electricity on the body, shock severity factors, shock victim assessment, average body tolerance, and coping with electrical injuries, PPE and likely electrical hazards.

PPE: None Required

Class Minimum: 12

Vehicle Rescue – Awareness

Prerequisites: None

Description: This program is intended for any emergency response personnel who may respond to motor vehicle crashes. The program identifies the many hazards often present at crash sites and explains how to recognize these hazards to protect both the rescuer and the patient. This entry-level program, based upon the requirements of NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue Incidents), will provide the student with a basic understanding of vehicle rescue theory and principals. The student will also receive an overview of supplemental restraint systems (SRS) in today's vehicles. This course also forms the required foundation for Operations and Technician-level training in vehicle rescue.

PPE: None Required

Class Minimum: 12

Vehicle Rescue - Operations Level

Prerequisite: Vehicle Rescue Awareness or proof of equivalent training

Description: This program forms the basis of the Rescue Technician's vehicle extrication skills. Scene safety, the sequence of vehicle rescue operations, vehicle anatomy and construction, patient care concerns, and rescuer safety are all stressed in the classroom portion of the program. Two full days of hands-on exercises present topics such as stabilization of vehicles in the "on-tires" "side resting" and "overturned" positions, hazard control, glass removal, patient protection, lifting operations with various jacks, as well as low and high pressure lifting bags, cribbing and basic rigging (come-along and rescue chain sets). Students are introduced to the proper use of reciprocating saws and air chisels for cutting operations. The proper use of hydraulic rescue tools is practiced by the students, stressing the basic disentanglement operations including roof and side removals, door opening and removal, and dashboard roll / lift evolutions including tactics for spreaders and rams.

PPE: Firefighter or Technical Rescue

Class Minimum: 16

Vehicle Rescue Technician Level

Prerequisites: Vehicle Rescue Awareness and Vehicle Rescue Operations

Description: This program expands upon the lessons and skills learned, developed, in the Vehicle Rescue Operations program and applies them in a multitude of directions with the focus of the program being situation problem solving and the development of the team concept. The roles of the rescue officer and incident commander are explored and defined. Crash dynamics and specific types are reviewed. Practical exercises include advanced stabilization and extrication evolutions. Incidents involving large/unusual vehicles are reviewed. The program finishes off with hands-on problem solving situations for the students to resolve.

PPE: Firefighter or Technical Rescue

Class Minimum: 12

Vehicle Rescue "Old School" Tools and Tactics

Prerequisite: Vehicle Rescue – Operations Level

Back in the days before powered hydraulic rescue tools, there were still cars. These cars sometimes crashed and some even required extrication. Extrication in those days required strength and a thorough understanding of basic tools like air chisels, reciprocating saws, come-alongs, manual hydraulic tools, and similar types of equipment. While usually replaced on most modern vehicle rescue scenes by powered hydraulics, these basic tools can be used to supplement and even speed up modern operations when used correctly in appropriate situations. This course is intended to provide a foundation in the use of basic tools for vehicle rescue operations through practical skills sessions. This course is intended to meet and exceed "Vehicle Rescue – Operations Level" training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Search and Rescue Incidents).

Required PPE: Technical Rescue or Firefighter

Class Minimum: 16

Water Rescue - Awareness

Prerequisites: None

Description: This awareness-level program will introduce emergency response personnel to the basics of water rescue. Topics covered will include: Hazards associated with water rescue operations; Use of Personal Protective Equipment (PPE); The dynamics of moving water; Hypothermia – causes, prevention and field treatment; Witness interview basics; Review of basic water rescue operations; Basic line systems. This class forms the foundation for more advanced water rescue training programs.

PPE: None Required

Class Minimum: 12

Water Rescue – Operations Level

Prerequisites: Water Rescue Awareness

Description: This operations-level program will introduce emergency response personnel to the basics of water rescue, including basic practical "Hands-on" skills. Topics covered will include: Use of Personal Protective Equipment (PPE); The dynamics of moving water; Review of basic water rescue operations; Basic line systems; In-water survival skills; Operating with water rescue craft; Patient packaging, etc. This class forms the foundation for more advanced water rescue training programs.

PPE: Water Rescue Helmet, Class III or V PFD, Thermal Protection (wet or dry suit), footwear, water rescue gloves – Contact HCESTC in advance of class for clarification.

Class Minimum: 16

Swift Water Rescue – Operations Level

Prerequisites: Water Rescue Awareness and Rope Rescue Awareness, or proof of equivalent training acceptable to lead instructor.

Description - This course presents an intensive “hands-on” training to emergency personnel who are expected to operate at a swift water emergency. The class will cover hazard identification, self-rescue and low –risk options for rescuing others from surface water emergencies involving still or swift water situations. There will be an evening lecture session followed by a full weekend of extensive “hands on” practical operations in actual moving water situation. Topics include river and rescue terminology, basic rescue theory and equipment, care of drowning and hypothermia, self-rescue, and basic rope handling skills. This course is intended to provide “Operations” level training as outlined in NFPA 1670 (Standard on Operations and Training for Technical Rescue Incidents).

PPE: Each student should bring a USCG approved Type III or V Personal Floation Device, any thermal protection suits available to their agency, gloves, eye protection, and suitable helmet to class. Anyone without the required PPE must contact the Training Center at least ten days prior to the class in order to make arrangements.

Class Minimum: 16

Swift Water Rescue-Technician Level

Prerequisite: Swiftwater Rescue Operations, or proof of equivalent qualifications acceptable to the lead instructor.

Description: This twenty four hour course will build upon the knowledge and skills obtained in the Operations Level program. Students will learn advanced procedures for line systems and boat-based rescue operations. Students will also learn procedures for managing rescue operations and conducting search operations. This course will help agencies obtain “Technician Level” training for their personnel as per NFPA 1670, and Level II training for the individual rescuer as per NFPA 1006.

Required PPE: Swiftwater Rescue PPE, including wet or dry suit, PFD, water rescue helmet, gloves and water rescue footwear.

Wilderness First Aid (ASHI)

Prerequisites: Current AHA BLS (CPR) certification card

Description: Wilderness First Aid: Emergency Care in Remote Locations, information on how to handle common injuries and illnesses when medical care is an hour away or more. This is also useful for mass casualty scenarios where patients may be in triage for extended periods and lack equipment due to initial shortages. Designed for those who work or travel in remote locations, this comprehensive guide will teach you what to look for and what to do in the event of an emergency, and direct you to the most appropriate type of care. It’s essential reading for wilderness educators, trip leaders, guides, search and rescue groups, and anyone who works or plays far from definitive medical care. It shows how to conduct a patient assessment, improvise when ideal materials are not handy, and decide whether or not to evacuate a patient.

PPE: Recommended to bring stethoscope

Class Minimum: 12

Winter Rope Rescue Skills Refresher

Prerequisite: None

Description: This one day course is intended to provide the rescuer with a review of basic rope rescue skills, indoors, when the weather is least likely to cooperate with outdoors, “hands-on” practical sessions. The student will have the opportunity to review basic knots, anchors, mechanical advantage systems, belay systems, and patient packaging skills. All though there are no pre-requisites for this class, a basic understanding of rope rescue skills would be a plus.

PPE: Technical Rescue

Class Minimum: 16

CBRNE (WMD) Level 1 First Responder

Prerequisites: HazMat Awareness

Description: This course will be presented as a classroom lecture. It is designed for first responders who operate at the awareness level. The lecture will familiarize students with the recognition of weapons of mass destruction, terrorism and the defensive actions they may use in a response to a terrorist incident. The course will review basic awareness level response principles.

PPE: None Required

Class Minimum: 12

COURSES BY REQUEST FOR COMPANY DRILLS:

- Live Burns
- Search and Rescue
- Ventilation
- Forcible Entry
- Ladders- Basic
- Ladders- Advanced
- Hose Advancement- Basic
- Hose Advancement- Advanced
- Vehicle Fires
- Vehicle Extrication
- Flammable Liquid Fires
- Safety and Survival Refresher
- SCBA Confidence- Maze Trailer
- RIC and Mayday Drills
- Thermal Imaging Camera Advantages and Disadvantages- Practical

CLASSROOM DRILLS:

- Fire ground operations
- Fire Scene Management
- Everyone Goes Home
- Car Fires Awareness
- RIC Awareness
- Thermal Imaging Camera Advantages and Disadvantages- Lecture
- Recruitment and Retention

*Drill Requests MUST be submitted at least 21 Days in advance for approval**