

Hands-on Training Evolutions

4-Hour Evolutions: Monday and Tuesday, April 18-19

8:00 a.m.-12:00 p.m. and 1:00 p.m.-5:00 p.m.

Advanced Vehicle Extrication: Real-World Challenges

Lead Instructor: Battalion Chief (Ret.) Leigh Hollins, Cedar Hammock (FL) Fire Department

Instructors present real-world, challenging, difficult extrication scenarios that necessitate advanced skills to stabilize the vehicles, gain entry, and remove patients entrapped and entangled in the wreckage. All students will experience "lots of tool time." **ADVANCED**

Conventional Forcible Entry

Lead Instructor: Firefighter Chris Minichiello, Fire Department of New York/East Coast Rescue Solutions

Forcible entry can be a challenge for all departments, large and small. This class covers topics that include door and lock size-up with proper tool placement. Each student will get multiple forces on inward-outward-swinging doors in scenarios with varying degrees of difficulty, including restricted space and limited visibility. Students will also learn how to size up door and locks with proper tools, size up and cut various types of commercial roll-down gates, and defeat residential garage doors using several methods. At the end of the class, all students will have hands-on time cutting the various gate/door types, forcing doors, pulling hinges, pulling and manipulating locks, and defeating carriage bolts to gain real-world experience. **ALL LEVELS**

Engine Company Essentials: Getting Water on the Fire

Lead Instructor: Lieutenant Anthony Piontek, Green Bay (WI) Fire Department

It's all about creating the most efficient and most effective tool on the fireground--the engine company! Students rotate through realistic scenarios. Handlines and Stretches: Students gain an understanding of the usefulness and limitations of preconnected and static loads. Loads and stretches reinforce pre-entry operation principles and discipline. Work as attack/backup teams to provide experience and problem solving for pinch areas, short stretches, loss-of-water issues, line placement, and stretch estimation. Gallons per Second: Discussion and demonstrations on innovative tactics for both offensive and defensive operations and water supply. Students deploy large-diameter hoselines and explore techniques to maximize the effectiveness of personnel and equipment. Standpipe Operations: Students engage in initial hookup and standpipe operations; fold/deploy/stretch hose packs; and function as members of the attack team, working through nozzle, backup, door, control, and officer positions. **ALL LEVELS**

Engine and Truck Placement: Gaining the Tactical Advantage

Lead Instructor: Lieutenant (Ret.) Michael Wilbur, Fire Department of New York

Students will learn the principles and techniques for safe and effective placement and operation of aerial, tower ladder, and engine apparatus on the fireground. Topics include placing aerial apparatus, safely operating an aerial device and maximizing the apparatus potential through the use of ground ladders, and differing hose complements and apparatus configurations. Students will learn how to calculate the operational footprint of the apparatus and the true working length

of the aerial to facilitate proper placement of aerial apparatus to maximize the scrub area and learn and practice techniques for mastering positioning the engine apparatus effectively to facilitate water supply, stretching the initial attack line, and allowing optimal aerial apparatus placement. Every student will get limited time to operate both an aerial ladder and a tower ladder and to participate in interactive apparatus positioning and ground ladder and hoseline drills. ALL LEVELS

Farm Machinery Extrication

Lead Instructor: Coordinator, Mark Baker, Stateline Farm Rescue

This intense hands-on course deals with the special challenges of rural farm and agricultural emergencies. Hands-on stations include grain bin engulfments, grain panel cutting procedures, auger and PTO entanglement, and tractor overturns. Instructors guide the students in safely performing and mitigating these types of emergencies. Students will gain the practical knowledge to efficiently deal with these type of situations back in their jurisdictions. ALL LEVELS

Firefighter Bailout Techniques

Lead Instructor: Captain/Training Officer Jason Hoevelmann, Florissant Valley (MO) Fire Protection District, Engine House Training, LLC

As firefighters, we must train and be prepared for the worst-case scenario. Changes in building construction, content load, and improved personal protective equipment are all factors that can lead to rapidly changing fire events that could trap us in a fire building. Firefighters must not only carry some type of system to self-extricate from an elevated position but must also be extremely proficient in the use of that system under the worst of conditions. The keys to a successful "bailout" from an elevated location are to have proper equipment and training--and repetition. Often, firefighters will purchase equipment for bailout but will not have a solid foundation of training for using it in high-stress situations. This course provides firefighters with the skills they need to successfully perform a safe "bailout" from an elevated location. Students will also learn how to use props and equipment to safely maintain their level of proficiency once back at their own department. ALL LEVELS

Flashover and Modern Fire Behavior Training

Lead Instructor: Battalion Chief Joseph Berchtold, Teaneck (NJ) Fire Department

The presence of rich fuels have changed today's fireground, and newly reported information on controlling flow paths are influencing the tactics used to fight these fires. Firefighters must adapt their firefighting to overcome the hazard of accelerated, deadly flashovers on the fireground. Students are exposed to different environments--through Power Point®, video, dollhouse flashover simulators, and full-scale flashover simulators--that show close up how these modern fuel packages and flow paths drive the changing fire environment to create the deadly flashover phenomenon. Students will observe how factors like door control, ventilation control, flow path, time, and fuel drive and change a flashover. Students will gain a more thorough understanding of how deadly these flashovers are occurring and why they are occurring more often. The four warning signs of flashover are discussed, and you will learn techniques for staying safe or buying time so you can escape before the event occurs. ALL LEVELS

Hand-to-Hand Combat: Auto Extrication Hand Tools Only

Lead Instructor: Lieutenant, Jeff Pugh, Central Pierce Fire & Rescue/PXT, Washington

Extrication station rotations focus on stabilizing the vehicle in its physical orientation, providing new and modified old extrication techniques for gaining access to patients. The emphasis is on making every movement, cut, and relief count in the "Art of Making Space" quickly and efficiently. The systematic approach focuses primarily on using hand tools--mechanical, electric, or pneumatic--to illustrate the following objectives: seat displacement/removal, door displacement/removal, maxi doors or side blow-out B-post displacement/removal, dash displacement, push/lift roll steering column displacement, pull third door conversions hood, trunk access and removal, and lock mechanism bypass through floor-board access. ALL LEVELS

Heavy-Vehicle Extrication

Lead Instructor: Battalion Chief Todd Taylor, Wayne Township (IN) Fire Department

An introduction to incidents involving heavy vehicle accidents on the roadways. Students will have the opportunity to get hands-on experience with props that include a semi cab, tour bus, and a semi trailer--props not available in most fire departments because of their cost. Students will gain hands-on experience doing the following: lifting a tour bus off a car using lifting struts and cribbing, rotating a wrecker to lift a trailer off a vehicle and to extricate a mannequin from the entrapment, using rescue tools to perform extrication techniques on a semi cab, and working with vehicles trapped under the side of a semi trailer. Students are afforded the chance to work in a training atmosphere before having to respond to these types of accidents on the roadway.

Man vs. Machinery

Lead Instructor: Captain Mark Gregory, Fire Department of New York

Students are instructed on the methods that can be employed to disentangle victims from various forms of machinery. Basic techniques in ring removals are addressed. Evolutions progress in complexity as operations come to involve snow blowers, impalements on fencing, and hands stuck in machinery (meat grinders). The focus is on finding the least complicated method of performing instead of "overthinking" the situation. Students are rotated among all five stations: Ring Removals and Tool Usage, Ladder Lift with Car, Impalements, Hand Caught in a Meat Grinder, Torch Use and Large-Scale Machinery Entrapments. ALL LEVELS

Real-World, Street-Smart Extrication

Lead Instructor: Special Operations Lieutenant Squad 4 C, Isaac Frazier, Tactical Advantage Training, Florida

Many times, the most important aspects of extrication are overlooked. Many departments get fixated on the advanced portions of extrication while the extrications skills that are most commonly used nationwide are misunderstood and, therefore, lack effectiveness. This program hits many important portions of vehicle extrication--vehicle on side, side outs to dash displacements, objects on a vehicle, steering wheel displacement/de-ringing, seat notching, guardrails, and much more. When we understand the "whys" of each method, we can understand the "hows" when Plan A doesn't work. ALL LEVELS

Rescue and Squad Company Operations on the Fireground

Lead Instructor: Firefighter Joseph Alvarez, Maplewood (NJ) Fire Department

Students participate in five stations: MASK Confidence, Large Area Search (Managing the Mayday), Cutting Bars Off Windows with Saws and Torches, Removing a Down Firefighter from a Second-Floor Window, and Window Extensions. ALL LEVELS

Vent-Enter-Isolate-Search (VEIS) and Victim Removal

Lead Instructor: Chief of Safety and Training Charlie Fadale, Fishers (IN) Fire Department

The focus is on the techniques of single-story and multilevel structure vent-enter-isolate-search (VEIS). Firefighter safety is stressed during all scenarios. Basic search techniques are reviewed, and students search furnished rooms. After the beginning briefing presentation, students will be divided into groups and will perform in all positions of the ground-floor and second-story VEIS stations, including simulating clearing the window, ladder placement, entry, isolation and controlling the room environment (flow path), search, and victim removal. A new station this year covers techniques of victim removal through windows. Multiple stations of each technique will run concurrently so all students will get the opportunity to perform the skills. Another victim-removal station has been added for additional concentration on victim removal. Attendees will receive a copy of the lesson plan. ALL LEVELS

West Coast Firetown Vertical Ventilation Operations

Lead Instructor: Chief Officer, Ed Hadfield, City of Santa Maria (CA) Fire Department

Students gain experience in the enhanced skills sets used in vertical ventilation operations typically employed in the Midwest and on the West Coast. These efficient and aggressive vertical ventilation operations greatly reduce the chances of hostile events in the interior of occupancies while increasing tenability for interoperations and survivability for occupants trapped inside. Much misinformation and many urban myths have been associated with the danger and effectiveness of vertical ventilation. This course dispels this misinformation while demonstrating the proper manner in which vertical ventilation operations on engineered wood construction features can and should be performed to rapidly improve conditions for interior operations and coordinated actions on the fireground. The need for coordinated and enhanced vertical ventilation operations has never been greater. ALL LEVELS

Working in the Fire Flow Path

Lead Instructor: Lieutenant, Sean Gray, Cobb County (GA) Fire and Emergency Services

This hands-on live fire behavior class demonstrates how to operate safely on today's fireground. Experienced instructors provide students with a visual demonstration of rollover, flow path, and the effects of ventilation. Instruction is given on interior and exterior fire attack, door control, and fire behavior based on Underwriters Laboratories Firefighter Safety Research Institute research. There will be separate rotating stations of fire behavior, interior fire attack with an emphasis on door control, and a third one for interaction with experienced UL-FSRI advisory board members on these tactics. Students learn how to implement the information into fireground operations within their departments. ADVANCED

8-Hour Evolutions: Monday and Tuesday, April 20-21

8:00 a.m.-5:00 p.m.

Building Collapse and Void Search

Lead Instructor: Firefighter (Ret.) Michael Davis, Fire Department of New York

Tornados, hurricanes, and other weather-related incidents! The past few years have seen an increase in these types of events that have required the quick action of first responders. The focus is on training for and understanding the magnitude of these events. Students learn the initial skills rescue personnel need to remove victims early in the collapse operations. A significantly damaged building is used to simulate a building collapse. Manikins are used as victims trapped in the structure awaiting "rescue" by the students. ALL LEVELS

Live Fire: First Due

Lead Instructor: Lieutenant Doug Stephenson, Johns Creek (GA) Fire Department

A five-station, hands-on training event that incorporates live fire, interior fire attacks, BASIC search and rescue, hose selection/placement/management, and buddy rescue techniques. The focus is on the initial actions of the first-arriving crews at fires involving structures and exposures. BASIC

NFPA 1403 Compliant Live Burn Training In Acquired Structures

Lead Instructor: Captain (Ret.) Gregory A. Fisher, Champaign (IL) Fire Department

The live fire training evolutions adhere to National Fire Protection Association (NFPA) 1403, Standard on Live Fire Training Evolutions. Safety hazards in live burns are minimized to students, instructors, and bystanders. Students are closely monitored while working in live fire scenarios and are mentored relative to the instructor in charge; fire control; safety; water supply; accountability; and positions such as attack, backup, search, vent, and rapid intervention for each evolution. Students must meet NFPA 1001, Standard for Fire Fighter Professional Qualifications, BASIC firefighter job performance requirements and review self-contained breathing apparatus operation procedures supplied by FDIC sponsors prior to live fires. Students are briefed in eight to ten live fire evolutions on a site safety plan, drill objectives, an emergency evacuation, and any relevant information regarding safety for each live fire scenario. Participants gain a better understanding of NFPA 1403 and meeting objectives applying to instructor credentialing in live burns in acquired structures. INTERMEDIATE/ADVANCED

Nozzle Forward

Lead Instructor: Firefighter Aaron Fields, Seattle (WA) Fire Department

This class is for firefighters and company officers. It is the product of many hours of both fireground and drill experience. Its goal is to help craft more efficient engine companies by increasing the individuals' competency with their tools and expanding on the conceptual aspects of the fire environment. ALL LEVELS

Rapid Intervention Team Combat Drills

Lead Instructor: Assistant Chief James Crawford, Midway (SC) Fire Rescue Department

Rapid intervention team (RIT) training should be realistic and to the point. When a RIT deploys into a burning building for a Mayday, each team member will be taxed to the limit both physically and mentally. Students are trained and evaluated in performing RIT duties under realistic conditions. Assembled into teams and deployed into rescue scenarios, students encounter numerous problems that must be solved as a team. Rescue scenarios include a lifting rescue, a deployment rescue, a lowering-system rescue, and the Pittsburgh drill rescue. Each

team must maneuver the rescue course to a down firefighter victim, assess the victim, complete any extrication, package the victim, and initiate removal. The team must remove the firefighter victim back through the scenario course to safety. Scenarios are to be completed within a specified time. INTERMEDIATE

Truck Company Essentials

Lead Instructor: Lieutenant, Michael Ciampo, Fire Department of New York

Students rotate through a series of stations to get a “taste” of truck company operations in this new interactive class. At the Forcible Entry station, each student learns how to force inward- and outward-opening doors and how to cut simulated window bars and roll-down gates. At the Ladders station, they learn portable ladder operations that include new leg lock maneuvers and perform simulated rescues and removals. At the Ventilation station, they perform horizontal and vertical ventilation on the acquired structures. At the Search station, they conduct primary search, learn vent-enter-search tactics, and perform overhaul skills when searching for fire extension. ALL LEVELS

Urban Essentials

Lead Instructor: Lieutenant Ray McCormack, Fire Department of New York; and Battalion Chief Erich Roden, Milwaukee (WI) Fire Department

This class is a series of rescue challenges that teams will tackle with the guidance of the instructor. The scenarios require a solid base knowledge of rescue capabilities and common tools such as air bags, hydraulic spreaders, rope systems, shoring, cutting, and forcible entry. Each team will be graded on each task and will choose its own plan of attack and team leader. Some tasks include lowering a bariatric patient, a vehicle into a store front, trapped in a cellar, firefighters caught in a floor collapse, and a child under a dumpster. Each task is time compressed and requires teamwork. INTERMEDIATE/ADVANCED

3-Day HOT Evolution

Preparing for the Acquired Structure Burn (Saturday and Sunday)

Saturday	(14 students)
Sunday	(14 students)
Monday	(first 7 of those students assigned to Monday)
Tuesday	(second 7 of those students assigned to Tuesday)

Preparing for the Acquired Structure Burn - Completing the Task List

Lead Instructor: Captain (Ret.) Gregory A. Fisher, Champaign (IL) Fire Department

This is a three-day practical application class with students completing components of the International Society of Fire Service Instructors’ (and others’) Live Fire Training Instructor task book for Acquired Structure and Instructor-In-Charge. Conducting live fire training in acquired structures while maintaining compliance with NFPA 1403 can be a daunting task and difficult to accomplish. Through the skills, knowledge, and resources presented in this class, you will be prepared to meet the responsibilities of the Instructor-In-Charge for this training and safely conduct the drills in a realistic and relevant manner. NOTE: Prerequisites – NO EXCEPTIONS: International Society of Fire Service Instructor Live Fire Instructor - Fixed Facility Certification

and Live Fire Acquired Structure Training class (online), Instructor-In-Charge class (online).
ADVANCED