

# SAFRE 2018

## COURSE CATALOG



9:00 am - 5:00 pm, Wednesday, August 8, 2018

**Fire Inspector Continuing Education**

**Workshop Description:**

**Chapter 4 - Emergency Planning & Preparedness**

This class will be discussing the importance of emergency planning and coordination with emergency forces as well as procedures for managing or responding to emergencies.

Total Fire Prevention Continuing Education - 3.0 hrs

**Chapter 5 - Fire Service Features**

In this class students will discuss the importance of Access to Buildings, Premise Identification, Water Supplies and Hydrant Distribution.

Total Fire Prevention Continuing Education - 3.0 hrs.

***This session presented by:*** Phillip Davis, Retired Fire Marshal, Rocky Mount Department



**9:00 am - 5:00 pm, Wednesday, August 8, 2018**

## **Firefighting Operations at Mega Mansions**

### ***Workshop Description:***

Today's residential homes are being built larger than ever, in all community settings from rural to suburban and urban contexts. These residential occupancies present many significant risks and operational challenges to commanders and firefighting companies.

This comprehensive program will examine building construction, engineered systems and design configurations and characteristics of common mega-mansions – homes ranging from 4000 square feet to 10,000, 12,000, 15,000 and 20,000 SF. Predictability of Building Performance, Occupancy Risk and Reading the Building, Strategic Factors, and Tactical Methodologies integrating the latest on fire behavior, flow path and compartment control with insights on accessibility, limited water supply factors and coordinated operational and incident management principles will be presented.

Firefighting operations in these residential homes present significantly different operational models than the conventional home requiring command and company officers and firefighters to have increased knowledge and skill sets for safe operations.

***This session presented by:*** Christopher Naum, SFPE, Command Institute

**9:00 am - 5:00 pm, Wednesday, August 8, 2018**

## **Hand Tools Only Forcible Entry Academy [Keeter Training Center]**

***Workshop Description:*** Forcible Entry has been a lost art that has regained popularity all over again. During this class, students will rotate through different stations, learning one and two person techniques for conventional, unconventional, and through the lock forcible entry.

Rotations will include: history of the tools and maintaining/modifying them, window and door size up, single person forcible entry on inward/outward swinging doors, additional security devices including carriage bolts and drop bars, forcible entry in stairs/confined spaces, two person techniques, through the locks and pad locks, and window bars. Once students will go through a dry run, they will go through diminished visibility and live fire conditions (location permitting). After this class, students will have confidence to make their way or at least start the process in entering through a structure with the most common tools found on every apparatus.

***This session presented by:*** Julio Ramos, Fireground and Special Operations Concepts LLC

**9:00 am - 5:00 pm, Wednesday, August 8, 2018**

**The Run & Gun Engine Company [Offsite Location TBD]**

**Workshop Description:** This course will address the concepts of running long lines and operating the big guns of the Engine Company. We will introduce methods of running long lines, bundles, and extending pre-connects. Additionally, the use of the 2.5" hoseline and larger master streams on the fireground will be demonstrated and played out.

**This session presented by:** Richard Ray, City of Durham Fire Department

**9:00 am - 5:00 pm, Wednesday, August 8, 2018**

**Tactical Thermal Imaging-Part I [Keeter Training Center]**

**Workshop Description:** Today's fireground is a dynamic place filled with high heat release rate fuels combined with light weight construction that fails quickly under fire. Fire growth is exponential and the temperatures often exceed the performance of our PPE. Therefore there has never been a greater need for a thermal paradigms shift. This class will enhance fire ground commanders and the fire officer's perspective on how to be more efficient, prevent rapid fire growth, direct their streams, and improve search & rescue efforts.

The fire service is being introduced to new technology and new challenges seemingly almost every day. With the continual synthetic production of high heat release rate fuels combined with light weight construction equates to a rapidly progressing, ventilation limited, fire ground that collapses quite quickly. These factors combined along with improved thermal protective performance of firefighter's PPE have created a tremendous need for a thermal diagnostic tool that firefighters can enhance their strategies and tactics with. This tool has been around for quite some time but hasn't been fully understood nor fully implemented in the fashion or manner that would produce greater efficiency on the fire ground.

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The thermal imaging camera in the hands of a properly trained and fundamentally sound firefighter equates to seeing the fire ground and the changing environment in a new perspective. This enhanced perspective is tactical thermal imaging; it has been written about over the past 20 years in research papers and has been implemented successfully by a few departments across the nation. By properly understanding thermal severity, the key attributes of thermal imaging and its limitations, and then applying them on the fire ground to tactics that are currently practiced, will allow firefighters to perform at a greater efficiency, extinguish the fire faster, save victims up to 75% quicker, and improve the success rate of rapid intervention efforts.

***This session presented by:*** Andy Starnes, Charlotte Fire Department

**9:00 am - 5:00 pm, Wednesday, August 8, 2018**

## **Chief 101**

***Workshop Description:*** This class will satisfy the 9S inspection criteria as specified by the North Carolina Administrative Code. The primary objective of the course is to inform current and future chief officers of the various aspects and complexities surrounding the operations and organization of North Carolina fire departments. Emphasis will be placed on ratings and inspections, NFRIS reporting, prevention and grant programs, basic line-of-duty death information, financial considerations, and an overview of the various expectations facing a chief officer.

***This session presented by:*** Brian Wade, NC OSFM



**9:00 am - 12:00 pm, Wednesday, August 8, 2018**

**The Ups & Downs of Elevators**

**Workshop Description:** In my classroom session “The Ups And Downs Of Elevators,” we will examine the vast changes in elevator technology and how those changes impact firefighters when we use them to reach fires on upper floors of high rise buildings, and when we are called to rescue occupants of stalled elevators.

The class will examine the design and function of hydraulic and traction elevators, their hoist ways and machine rooms; then we will look at MRL’s, that’s machine room less elevators, which are becoming very common. We will see how interlocks and door restrictors , intended to keep elevator passengers safe, can make it more difficult for firefighters to release trapped occupants if they do not know how they operate and how to properly defeat them without causing unnecessary damage.

Those attending the class will gain a solid understanding of Fireman’s Service and why it does not guarantee the safety of firefighters under fire conditions. I will conclude the class by relating a near miss where an out of control elevator could have taken the lives of an entire fire company on my department.

***This session presented by:*** Michael Posner, Miami Dade Fire Rescue Department



**9:00 am - 12:00 pm, Wednesday, August 8, 2018**

## **Suicide, Stress & PTSD**

**Workshop Description:** Suicide Stress and PTSD.....it is a big deal!

Depression, Anxiety, and Stress are all rather different, but are also clearly interconnected. In today's society, a stigma is often associated with mental health, and the topic is considered too taboo to discuss openly. In reality, mental health is a disease that needs to be discussed, understood, and addressed.

Stress is defined as a state of mental or emotional strain or tension resulting from adverse or very demanding circumstances. To hear someone say "I am beyond stressed at work" defines a short term stressor that may be a project, a coworker, or change of some kind. Anxiety is defined as a feeling of worry, nervousness, or unease, typically about an imminent event or something with an uncertain outcome. An individual may experience anxiety over an upcoming evaluation or presentation. Depression is defined as feelings of severe despondency and dejection. In today's society, you may hear someone say "I am so depressed over \_\_\_\_, " reality begs to differ. Depression is a diagnosed mental health condition. It is something that most individuals will not openly discuss.

In this presentation, I want to discuss the recent studies focused on firefighters and mental health. In 2011, a study was conducted by the National Fallen Firefighters Foundation focusing on firefighter suicide rates. It was found that this type of data was difficult to track. This is in part due to 67% of the fire service in the US being volunteer. When reviewing the data collected, it was found that up to 37% of firefighters suffer from undiagnosed PTSD (post traumatic stress disorder). It was also noted that over 50% of firefighters suffer from at least one form of mental health disease.

The problem researchers found was they could get firefighters to fill out an anonymous survey, but very few were willing to step forward to talk about the various forms of mental health problems. In this process, a focus began on the "Everyone Goes Home" program highlighting initiative 13. In this presentation, I will discuss initiative 13 and describe the differences between depression, anxiety, and stress. We need to educate our departments on the signs, symptoms, and treatment options available locally. During training sessions, I often hear leaders tell firefighters "we go in as a crew; we come out as a crew!" It is time we actually put that mentality to use on and off the fire ground.

**This session presented by:** Jennifer Lowrance, Catawba County Emergency Services

**12:00 pm - 1:30 pm, Wednesday, August 8, 2018**

**Minimizing Cancer Risk Through Station Design**

**Workshop Description:** Firefighters and EMS personnel are regularly exposed to health risks that place them in the highest-risk groups of medical and health insurance programs. Unfortunately, toxic and carcinogen contaminated materials in the field are often carried back to the station by the emergency responders. This turns the Fire Station into a cesspool for carcinogens and other pollutants.

Ken Newell, AIA will introduce important concepts in the design and reconfiguration of fire stations to improve the overall health of emergency responders; including the collection or containment of contaminants within the station – thus protecting and improving the overall health of our emergency responders.

**This session presented by:** Ken Newell, AIA, Stewart-Cooper-Newell Architects

**1:00 pm - 3:00 pm, Wednesday, August 8, 2018**

**Understanding Fire Service Suicide: The Key to Prevention**

**Workshop Description:** Students will learn methods to prevent suicide by learning its traceable causes. Individual, company level, and departmental methods for prevention will be explained. Suicide tragically results when the decedent incorrectly concludes their death could be a service to others. While there are numerous causes of suicide, there are a few common risk factors that can be identified early to help with intervention. Social isolation and withdrawing from others is one of the greatest risk factors.

Dr. Joiner developed a model for explaining suicidal behavior. He demonstrates that suicide occurs when 3 factors intersect: thwarted sense of belonging, perception that he/she is a burden, and capacity to engage in lethal action. Remove one of these factors, and the risk for suicide is reduced. The causes that lead to fire service suicide are varied and can be work-related, personal, or a combination. Resources like peer support and treatment to prevent maladaptive coping will be explained.

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Key objectives are:

- Suicide as a dark secret in the fire service
- Risk factors for suicide
- Protective factors associated with prevention, and methods of stress management
- Company officer / department responsibilities

Dr. Joiner's Interpersonal Theory of Suicide (IPTS) model, consisting of only three constructs, is discussed in detail through case review and various risk factors. A picture of understanding is painted throughout the course so that prevention can be recognized.

The class is delivered as a lecture utilizing PowerPoint, video, and student feedback. The class outlines factors involved in fire service suicide and discusses strategies for detection and prevention. These strategies focus on all aspects involved in the fire service: probationary, firefighters, company officers, mental health professionals, and departmental guidelines. The key to suicide prevention is understanding its tractable causes.

Oftentimes, these are more easily understood through discussing case study of firefighters in crisis. Explaining their trajectories serves to demonstrate how easily one can reach crisis and the power of admitting when you need a little extra help. Demonstrating the power of help seeking behavior as a form of prevention is key. A significant portion of the class is utilized to explain Dr. Thomas Joiner's Interpersonal Psychological Theory of Suicide (IPTS). This model has stood up to over 20 empirical tests and simply paints a picture.

***This session presented by:*** Dena Ali, Raleigh Fire Department

WEDNESDAY, AUGUST 8, 2018

**2:00 pm - 3:00 pm, Wednesday, August 8, 2018**

**Keeping Your Department Healthy, Updates on NFPA 1582**

***Workshop Description:***

The new version of NFPA 1582 has been released. This presentation will explain the key changes to NFPA 1582 and how they will impact the health of your department.

***This session presented by:*** Dr. Gonzalo Fernandez, SiteMed

FRIDAY, AUGUST 10, 2018

**8:00 am - 4:00 pm, Friday, August 10, 2018**

**Lifting & Stabilizing with Struts [Limited to 48 students]**

**Location:** TT & E Iron & Metal, 1529 W Garner Rd, Garner, NC (*Attendees must provide their own transportation*)

***Workshop Description:*** This class will teach the student how to use struts for basic stabilization and lifting. The class will cover the proper physics needed to safely perform different lifts that can be accomplished quickly and safely. They will learn the dynamic of vehicle movements and how to manage those.

***This session presented by:*** David Pease & Jason Jordan, The REDS Team

WORKSHOPS

**9:00 am - 5:00 pm, Friday, August 10, 2018**

## **Get Your Finger Out of My Face: Creating a Leader / Leader Workforce**

**Workshop Description:** This will be a highly interactive exploration of the current Fire/EMS culture, with a bend towards identifying why we can be more effective as a team if certain essential ingredients are "put into the mix." A case study will be examined and dissected to pull from it elements that could immediately change the way we work together. This will be a fun and informative workshop!

**This session presented by:** Howard Cross, Howard Cross & Associates

**9:00 am - 5:00 pm, Friday, August 10, 2018**

## **Science Informs Tactics: Using Fire Behavior to Enhance Positive Outcomes**

**Workshop Description:** This class will address the dearth of fire behavior training in the US fire service. Many firefighters receive their NFPA standard curriculum dose of 4 hours of fire behavior training and never revisit this important subject. Objectives include improving the understanding of fire behavior, flow paths, using thermal imaging cameras, enhanced water streams (foam), building construction and other related topics that can influence a good outcome on the fire ground. These have a direct impact on firefighter safety.

The class will use lecture, case studies, videos and discussion to explore how tactic selection can be linked to actions that grow (bad) or decay (good) the fire. Adjuncts such as thermal imaging cameras, smoke blocker curtains, and fog nail nozzles will be used during the class.

**This session presented by:** Warren Whitley & Joe Starnes, Kill the Flashover Project

**9:00 am - 10:00 am, Friday, August 10, 2018**

**VIPER Update: Voice Interoperability Plan for Emergency Responders**

**Workshop Description:** Voice Interoperability Plan for Emergency Responders

- Statewide 700/800 MHz P25 trunked radio system available for all emergency responders (local, State, Federal)
- 95% in-street portable coverage based on a 3 watt portable radio
- Network infrastructure consisting of towers linked via microwave
- Implementation (build-out), Operations and Maintenance provided by NC Highway Patrol
- End-user requirement to join the network – purchase their own radios

**This session presented by:** Jeff Gordon & Cameron Taylor, NC Highway Patrol

**9:00 am - 10:00 am, Friday, August 10, 2018**

**Saving For Tomorrow**

**Workshop Description:** This workshop will explore the best way to plan for and manage your retirement savings, no matter what stage of your career you are currently in.

**This session presented by:** Patrick McGinnis, CRSP, Relationship Manager, The Standard

**9:00 am - 10:00 am, Friday, August 10, 2018**

**State & Federal Asbestos Removal Requirements**

**Workshop Description:** In this workshop, we will review the state & federal asbestos requirements, learn how to complete the application, discuss common problems we encounter during inspections, and address questions from the audience.

**This session presented by:** Jeffrey W. Dellinger, Industrial Hygiene Consultant, State of North Carolina

9:00 am - 10:30 am, Friday, August 10, 2018

## Residential Structure Fire—The First 15 Minutes

**Workshop Description:** This interactive workshop is designed to enhance the company officers' ability to make sound, rapid initial tactical decisions to ensure safe and successful fire ground operations. Whether your department responds to 2 or 200 working structure fires a year, the tactical decisions made in the first 15 minutes will determine the outcome of the fire.

This interactive workshop illustrates key points in company preparation, building construction, size-up, tactical decision making, water supply, and initial command, all of which are critical in the first 15 minutes of the incident. Through the use of PowerPoint, case studies, videos, and interactive simulations, students will experience the challenges inherent with the rapid tactical and strategic decisions required in the first 15 minutes for a successful outcome. Group discussions and debate are encouraged.

**This session presented by:** Chief LeRoy Smith, Holly Springs Fire Department



9:00 am - 10:30 am, Friday, August 10, 2018

**Followership: The Importance in Successful Organizations**

**Workshop Description:** The link between leadership, management, and the organization is widely understood and accepted in the corporate world. This concept is no different in the fire service, past or present. Improving leadership improves management, which in turn enhances performance. The fire service has strived for over a century to continue this quest. The flip side of leadership is followership, something that we have nearly lost the art of. Everyone seems to have all the answers without truly understanding the complexities of what is faced by the leadership.

If the flip side of leadership is followership, then it stands to reason that if leadership is important to the performance of an organization and the personnel whom make up the organization, then followership must have a critical role as well. In most cases, followership takes a backseat to leadership, even though it is a critical component to success.

You will not want to miss this intriguing presentation that explores the complexities of combining great leadership with the necessary qualities of followership in a dynamic reality fire service world presentation. Find out what your leadership is lacking by not being a quality follower.

Objectives:

1. The student will be able to identify and quantify what followership is.
2. The student will be able to identify the difference and similarities between leadership and followership.
3. The students will be able to identify and define the qualities of good followership.

**This session presented by:** Douglas Cline, Chief of the Training and Professional Development Division with Horry County Fire Rescue

**9:00 am - 10:30 am, Friday, August 10, 2018**

## **Preserving Your Fire Department Heritage**

**Workshop Description:** The history of a fire department is a rich tapestry that combines people, places, things, and events. And it's comprised of many moving pieces, including photos and videos, scrapbooks and news clippings, physical artifacts, first-person memories, and official records. This workshop provides an introduction to those concepts, as well as steps for getting started with defining, compiling, and sharing your fire department's history. The presenter will also share personal tips and tricks, and conclude with a question and answer session.

**This session presented by:** Mike Legeros, President, Raleigh Fire Museum

**9:00 am - 11:00 am, Friday, August 10, 2018 (Repeated on Saturday)**

## **Leading the Transition in Volunteer & Combination Departments**

**Workshop Description:** As the demand for services outpace a department's ability to deliver service, many departments begin the natural transition from fully volunteer to some form of a combination system. The pace of the transition and problems encountered during the process varies and often depends on the leadership's ability to recognize and deal with change. Volunteer departments have a number of service delivery options before considering hiring their first paid employee. However, leaders must know when the transition process must begin. There is no standard approach to transition from a volunteer to a combination department, but there are a variety of strategies that have been successful in many communities. Through an interactive process including case studies, this session will share several of those successful strategies and allow participants to engage in discussions to determine how they may apply experiences to address their department needs:

- Recognize the signals of change that would warrant the transition
- Understand the issues and obstacles from an internal and external perspective resulting from the decision to transition
- Identify the team members that would be involved in the assessment, planning, implementation, and evaluation phases of transition
- Be aware of the common pitfalls and issues surrounding the process to transition

The format will be interactive / lecture to provide purpose and to review successful strategies. To help create a greater understanding of the process, case studies will be used to illustrate how successful departments have transitioned.

**This session presented by:** Ron Cheves & Jim Grady, IAFC

**9:00 am - 11:00 am, Friday, August 10, 2018**

**Drones in the Fire Service: What You Really Need to Know**

**Workshop Description:** It's one thing to get a drone and consider using it for fire service operations. It's quite another to understand how to best utilize the technology, when not to fly, what you should absolutely consider before launching, and why the inclusion of a drone in operations can be more of a liability than a benefit for some departments.

The goal of the class is to assist those who are familiar with drones to become skilled pilots and operate the aircraft in such a way it can deliver actionable information and not just pretty pictures from the sky.

At the end of this class, students will have a much better understanding of risks of flight, how to locate the best landing zone, aerial thermal camera tricks, what not to do, and how to think like an FAA pilot.

This class is taught by an experienced FAA instrument rated aircraft pilot and Chief Pilot of UAS aircraft for the Wake Forest Fire Department.

At the end of the class, students will be more confident in their UAS flight operations for fire service incidents.

**This session presented by:** Steve Rhode, Chief Pilot, Wake Forest Fire Department

**9:00 am - 11:30 am, Friday, August 10, 2018**

**Line of Duty Death Roundtable**

**Workshop Description:** No officer or firefighter ever wants to endure the pain of losing a colleague in the line of duty. It does happen too frequently. The North Carolina Fallen Firefighters Foundation is pleased to offer this moderated conversation on the experiences of line officers and chiefs who have had the misfortune of dealing with line of duty deaths. The context of the conversation will focus on circumstances, impact, and lessons learned from this experience.

**This session presented by:** President of the NCFFF, Skyland Division Chief Rick Wood and the Chaplain to the NCFFF, Reverend Dana McKim



**9:00 am - 1:00 pm, Friday, August 10, 2018**

## **Non-HazMat Tech Guide to Multi-Gas Meters**

**Workshop Description:** Many departments provide their first run engine and ladder companies with a multi-gas meter for CO calls, natural gas/propane calls, after fire monitoring, etc., with little to no training on how to use it. This class will go over the intricacies of a multi-gas meter, from the technologies used in the sensors attached, to basic operations and maintenance, interpreting readings, and using scene clues and cross sensitivities to one's advantage.

**This session presented by:** Julio Ramos, Fireground and Special Operations Concepts LLC

**9:00 am - 1:00 pm, Friday, August 10, 2018**

## **NC Firefighter Peer Support**

**Workshop Description:** In recent years, suicide has become recognized as a problem in the fire service, and numerous organizations have worked to uncover the causes and solutions. We have learned that over 90 percent of suicide decedents had some sort of diagnosable and treatable mental health disorder. Firefighters are not immune to these disorders, which include post-traumatic stress (PTS), depression, anxiety, and substance abuse. Mental health disorders can be diagnosed and treated, and a suicidal crisis is often temporary. Intervention and prevention have the potential to reduce firefighters' suicide rates.

This workshop is designed to introduce department leaders with the components of an effective peer support team. A peer support program helps members to gain hands-on experience so they can better serve as a bridge between department members and mental health resources. At the end of this workshop, attendees will understand the need for peer support, the components of an effective team, and the resources available to build their team.

**This session presented by:** Chief Konrad Walsh, Winston-Salem Fire Department

**11:00 am - 1:00 pm, Friday, August 10, 2018**

**Life After Diagnosis: Learning to Live with PTSD**

**Workshop Description:** This is my personal story of struggling, hitting rock bottom, attempted suicide, recovery and returning to a normal life after being diagnosed with Post Traumatic Stress Disorder (PTSD) in 2012. This was a battle I started on my own and went about finding help in a very long solitary process. Since seeking help and getting treatment, I have found my new normal and continue my career.

My fire department knows about my struggle and has supported me through the process of finding the normal. We are currently changing the culture in our department and becoming more open to discussing mental health and treatment. We are developing a training program to educate our department on the importance of mental health. We are also training peers to create a peer support team within our department and supporting the North Carolina Firefighter Peer Support Team as an additional resource.

We have learned that PTSD is a qualitative and quantitative brain injury. With the new advances in medical evaluation and treatments, medical professionals can medically see the results of treatment.

Being diagnosed is not the end of your life or your career. With the right treatment and support, you can return to a comfortable normal life. There is life after diagnosis.

***This session presented by:*** Matthew Donaldson, Cary Fire Department

**11:00 am - 2:00 pm, Friday, August 10, 2018**

## **Rapid Intervention Operations: Is Our Commitment Sufficient?**

**Workshop Description:** Since the loss of Captain Jeff Bowen on July 28th, 2011, one focus area of the Asheville Fire Department has been on preparing our companies to mitigate mayday situations, including firefighter survival and rapid intervention team response. As a result of the focus, AFD has certified all online personnel in RIT to the operations level, and implemented three dedicated RIT Companies trained to the technician level.

Throughout the summer of 2014, AFD conducted hands-on, live fire analysis utilizing a complex RIT scenario to ensure the credibility of Asheville's RIT deployment model; determining the manpower, time, and breathing air requirements of such an incident. This testing analyzed AFD's ability to mitigate a complex RIT incident, ensuring we are providing the most survivable fire ground possible. As a result of the analysis, a comprehensive report was written containing all the findings. The analysis was conducted in a manner to ensure as much consistency as possible. The goals of the analysis were, to provide companies with a great training scenario, to determine the credibility of AFD's RIT deployment model, and to collect useful data to drive future operations and decision making.

The findings of this analysis, and in turn this presentation, are both important and relevant to the fire service as a whole. Rapid intervention to save our own is one of the most impactful missions we could ever be assigned. Each step of the rapid intervention process (locate, extricate, air, package, remove) was analyzed from multiple angles such as time, manpower, air consumption, training level, and viability, creating data and implementable action items that have not been previously demonstrated to the fire service. Take-aways include a training plan, staffing recommendations, deployment model, and hands-on tactical level "tricks of the trade" to make your RITs more efficient.

**This session presented by:** Trey Young, Asheville Fire Department

**11:30 am - 2:30 pm, Friday, August 10, 2018**

**Cancer In The Fire Service: What We All Have To Understand / The Concord Decontamination Model**

**Workshop Description:** This course is divided into 2 segments that address the realities of cancer in the fire service and what steps can be taken to both protect ourselves and start to change the culture that is potentially killing us. The second segment looks at the Concord Decontamination Model and how it can be easily implemented in any department to significantly reduce exposure while not interfering with operations.

This is being presented by the newly formed North Carolina Firefighter Cancer Alliance. This is a non-profit organization that focuses on the educational, support, and cancer screening needs of firefighters throughout North Carolina.

**This session presented by:** Travis McGaha & Joshua Simpson, NC Firefighter Cancer Alliance

**12:00 pm - 4:00 pm, Friday, August 10, 2018**

**Unmanned Aircraft for Emergency Responders**

**Workshop Description:** This class will introduce the fire service to UAS and the NC GS and FAA regulations.

**This session presented by:** Wayne Bailey, Certification Specialist, NC OSFM

**1:00 pm - 5:00 pm, Friday, August 10, 2018**

## **Hazmat Workshop: Emergency Response to Anhydrous Ammonia Incidents**

**Workshop Description:** Have you ever wondered how refrigeration systems work ? Have you responded to an anhydrous ammonia incident before ? Have you always been told or trained to wear Level A suits on all ammonia incidents and to use water to mitigate leak situations ? If any of these questions are “YES”, then this is the class for you.

This course will demystify anhydrous ammonia and prepare you with best practices for emergency preparedness and response to equip you with the skills necessary for implementation of proper risk-based decision making in an ammonia emergency. The best thing about this is that you will learn situational awareness principles to keep you safe at home in your garage, on the fire-ground and on a high-risk ammonia event. Making the wrong choices in any of these settings could be disastrous.

As an internationally recognized training organization, the Ammonia Safety & Training Institute was formed by firefighters and for firefighters. Mike Chapman has delivered anhydrous ammonia training all over the world to responders from awareness level to specialist (and many times with them both in the same room). You don't have to be a company officer or hazmat tech to benefit from this class. You will learn about the chemical and physical properties of ammonia (including the info the textbooks leave out). We will review anhydrous ammonia refrigeration system basics and how to plan high-value functional exercises with refrigeration system operators and how to coordinate with entities using or shipping ammonia. You will leave with a primer of best practices for strategies and tactics for managing ammonia releases as well as care of casualties injured during an event.

**This session presented by:** Mike Chapman – Master Instructor; Ammonia Safety & Training Institute (ASTI)



**1:00 pm - 3:00 pm, Friday, August 10, 2018**

**Social Media: Setting Employee Parameters & How to Use It for Positive Gain**

**Workshop Description:** Social media is a fixed standard that will not be going away. Fire Departments across the nation are struggling with not only how to set protocols for employees, but also how to use it for positive gains within the community. Used correctly, social media can be a voice for a department, one that can be your best advocate. When an employee uses it incorrectly, not only does it cause bad public relations, it can put the department in a dangerous legal situation.

This course will cover some of the more common protocols that departments can use to protect themselves. The course will also include unique ways to engage the public in conversation and to educate them on what the fire service offers.

- Social Media - The good, the bad, and the ugly
- Setting guidelines and protocols for employees
- Setting a timeline for advertising events and featuring employees
- How to protect yourself legally from the social media giant
- How to use social media for profit potential

***This session presented by:*** Mark Sullivan, Douglas County GA Fire Department / Lime Biscuit Creative

1:00 pm - 2:30 pm, Friday, August 10, 2018

**Rosters, Relief Funds, & Jones Street Rascals**

**Workshop Description:** (Description Pending)

**This session presented by:** Tim Bradley, Executive Director, NCSFA



**1:30 pm - 3:00 pm, Friday, August 10, 2018**

**Making Training Count: Documenting Training for Maximum Credit and Compliance**

**Workshop Description:** This presentation will provide attendees with up-to-date information on documentation of training, and documenting for maximum credit on ISO ratings/inspections. Attendees will be presented with best practices for maximizing credit through tying training topics to NFPA Standards and ISO Training Categories.

Objectives will include:

- Understanding ISO Training Categories and required hours for each category
- Understanding NFPA Job-Performance Requirements for various standards
- Understanding documentation needs for training report narratives
- Understanding the categorization of year-end training hours for department members

**This session presented by:** Brandyn Smith, Assistant Chief of Operations, Town of Leland Fire / Rescue Department

**1:30 pm - 3:00 pm, Friday, August 10, 2018**

**Protecting Fire & EMS from Highway Incident Hazards**

**Workshop Description:** So far in 2017, there have been 14 Fire and EMS personnel struck and killed by vehicles. Distracted, drowsy, drunk, drugged, disrespectful, and disgruntled drivers are striking firefighters, EMTs and emergency vehicles at roadway incidents with increasing frequency. We can't change their "D" behavior, but we can change how we do things to protect our personnel. All firefighters and EMTs are exposed



to moving traffic on every emergency run. Roads and highways are the most common immediately dangerous area of operation for firefighters and EMTs, and it is critical that personnel safeguard themselves during roadway operations. This session will offer strategies and tactics for safe roadway incident scene management. We'll also look at some recent incidents where personnel have been struck and killed by emergency vehicles. Participants in this class will walk away with the essential steps, actions, and resources every FD should be using to protect their personnel from being struck and injured or killed on roads and highways.

***This session presented by:*** Jack Sullivan, Emergency Responder Safety Institute

**2:00 pm - 3:00 pm, Friday, August 10, 2018**

## **Locomotive Fires & Rescues**

***Workshop Description:*** This class teaches students how railroad locomotives work, what dangers they encounter during a fire or derailment, and how to safely extricate a victim from the cab of a locomotive. Students will be able to take away the dangers of emergencies involving locomotives, and will learn how to safely mitigate fires and derailments. Students will also gain tips on how to successfully extricate a victim from a locomotive, because using the doors are not an option.

***This session presented by:*** Justin Hahn, Norfolk Southern Railroad



**2:30 pm - 4:00 pm, Friday, August 10, 2018**

**Shiners, Whiners, & Recliners: A Profile of Today's Fire Service**

**Workshop Description:** We have three types of people in fire service leadership: Shiners, Whiners, and Recliners. So which category do you fall into? Do you dare come and challenge yourself to see reality... good or bad? This dynamic program combines a step up to leadership concept with the reality of what is really going on at your firehouse. This program is unique in its approach and is not for the weak hearted leader! Let's take a look at all three and see what we can do to identify shiner, whiner and recliner characteristics, or are you scared? We challenge you to come and be a leader!

Objectives:

1. Learn the attitudes associated with being a Shiner, Whiner and Recliner
2. Conduct an intra-inspection of his/her profile based upon the interaction within the program
3. Identify the associations to changing the attitudes of each category

**This session presented by:** Douglas Cline, Chief of the Training and Professional Development Division with Horry County Fire Recue

**3:00 pm - 5:00 pm, Friday, August 10, 2018**

## **Progressive Fire Departments Engage Strategic Plans**

**Workshop Description:** As the cost dynamics shift and transition within the North Carolina fire service, fire departments at all levels need to be projecting what their organizations will effectively look like, and what their needs will be in the next three to five years in order to be sustainable. Strategic plans are living documents that help guide progressive fire departments forward utilizing continuous improvement principles.

This overview course will provide the essential elements of developing a written strategic plan for your fire department or organization. We will cover the principles of gathering community input, internal feedback, governing body direction, mission/vision/values, analyzing current performance, developing goals, and establishing accountability measures to ensure that progress is being achieved.

This information is valuable to Chief Fire Officers, County Fire Marshals, elected officials and Private Non-Profit Boards of Director members.

**This session presented by:** Gregory Grayson, EnviroSAFE

**3:30 pm - 4:30 pm, Friday, August 10, 2018**

## **NC Active Assailant Whitepaper**

**Workshop Description:** Recent active assailant attacks and numerous after action reports demonstrate that previous response models continue to result in unnecessary loss of life. Multiple research studies demonstrate that victims continue to die needlessly at active assailant incidents because of delays in point-of-wounding care, extraction, treatment, and transport. The North Carolina Active Assailant Whitepaper focuses on planning, training, and exercise best practices in the areas of 9-1-1, Law Enforcement, Fire, EMS, and Emergency Management. This interactive workshop will present the concepts of the Whitepaper in an open discussion atmosphere.

**This session presented by:** Jim Groves, Durham County Fire Marshal / Emergency Management

**3:30 pm - 5:00 pm, Friday, August 10, 2018**  
(Repeated Saturday)

**Grant Writing for Emergency Services**

**Workshop Description:** Funding for public agencies is hard to come by. The current economy is not much help as taxes are not being paid, bills for services are not being paid, some elected officials want to decrease taxes, etc. Grants can be a good option to help achieve projects that may not otherwise be funded. However, a major issue with grants is that people are not aware of the process and often follow myths versus facts. Thus, this presentation will focus on the art of the grant writing process and how to be successful.

This presentation will further aim to dispel myths, explain the overall process, and will give helpful hints as to how to increase your chances of obtaining grant funding.

**This session presented by:** David Hesselmeier, On Target Preparedness



**8:00 am - 12:00 pm, Saturday, August 11, 2018**

### **Volunteer Fire Departments | Winning on the Fireground**

**Workshop Description:** This presentation is designed to help chief officers, line officers, and firefighters of volunteer fire departments to prepare, train, and prioritize fireground tasks. Many times there are not enough firefighters at the beginning of the incident to accomplish all the necessary tasks on the fireground. Effectiveness is lost and firefighter safety is compromised because on scene personnel fail to follow guidelines, lack the necessary training, and try to perform too many tasks rather than prioritize and complete them.

The practices and concepts taught are based on successful and unsuccessful experiences on the fireground, and nationally recognized fireground principles and practices. This presentation will aid the student in developing operational guidelines, training, and how to prioritize and accomplish fireground tasks by dissecting and examining the critical elements. Fireground pictures and videos will be used to reinforce concepts taught. The practices and concepts taught are effective, safe, inexpensive, and can be applied immediately.

**Objectives:** After the completion of this class the student will have a better understanding of:

- The challenges faced by volunteer fire departments.
- How operational guidelines/best practices set the department for success.
- How communications can play a pivotal role in fireground success.
- Building mutual aid agreements that help ensure a safe and efficient fireground.
- Structure fire tasks that must be accomplished.
- How and why staffing affects the ability to accomplish these tasks.
- How to prioritize tasks based on potential rescue, the building, fire volume, available personnel, and equipment.
- Methods for accomplishing priority tasks with limited personnel and resources.
- Training that produces desired outcomes.
- The importance of how equipment plays a critical role in fireground efficiency and success.

**This session presented by:** Richard Ray, City of Durham Fire Rescue

**8:00 am - 10:00 am, Saturday, August 11, 2018**

*(Repeated from Friday)*

**Understanding Fire Service Suicide: The Key to Prevention**

**Workshop Description:** [See description on Page 8]

**8:00 am - 9:30 am, Saturday, August 11, 2018**

*(Repeated from Friday)*

**Grant Writing for Emergency Services**

**Workshop Description:** [See description on Page 28]

**9:00 am - 10:00 am, Saturday, August 11, 2018**

**The Power of a Budget**

**Workshop Description:** In this workshop, you will learn the critical skills necessary to create and manage a budget, using the simplest straightforward tools and the latest mobile apps.

***This session presented by:*** Patrick McGinnis, CRSP, Relationship Manager, The Standard

**10:00 am - 11:00 am, Saturday, August 11, 2018**

## **The Science of Effective Scene Lighting**

**Workshop Description:** The need for artificial lighting at night is one of the oldest fundamental necessities of the Fire and Emergency Services industries. Until recently, lighting technology was fairly limited, and the application of that technology was not very easy. In the last 10 years, with the advent of the high output LED, scene lighting has become one of the most innovative areas of our industry. As technology continues to change, a fundamental understanding of how to APPLY the technology is essential for the modern firefighter or specification committee. In this class, Sam Massa explores the technologies of past, present, and future, and how they can be applied to your fire scene to help rescue workplace injuries and improve your effectiveness after dark.

Course objectives are as follows:

- Understand differences in technology types (LED, HID, and Halogen)
- Explain the relationship between Lumens and Lux (using firefighter host stream analogy)
- Explore how PLACEMENT effects the ability to work at night
- Understand what NFPA has to say about lighting on and near fire apparatus
- Understand how COLOR temperature can be used to your advantage

A version of this course has been given at the Fire Dept Safety Officers of America Apparatus Symposium, and material used in this course has been published in Fire Apparatus Magazine and other industry publications. This course will be offered at the Fire Truck Training Conference in 2018 and available in pieces on our website ([www.hivizleds.com](http://www.hivizleds.com)).

***This session presented by:*** Sam Massa, President, HiViz

**10:00 am - 12:00 pm, Saturday, August 11, 2018**

*(Repeated from Friday)*

## **Leading the Transition in Volunteer & Combination Departments**

**Workshop Description:** [See description on Page 14]