



State of Delaware 17th Annual Hazardous Materials Training Workshop



◆◆◆◆◆ Workshop Training Sessions

Course Descriptions and Instructor Information

Saturday, May 11, 2024

7:15 am – 8:30 am: Registration – Continental Breakfast – Exhibitor Booths

8:30* am – 3:45 pm: Training Sessions

*Special Note: Session "7" will Start at 8:00 am

Delaware State Fire School

1461 Chestnut Grove, Dover, DE 19904

See Separate Course Descriptions for Workshop Classes to be held Friday, May 10, 2024

"Educating Responders for Today and Tomorrow"

Sessions 1 and 9 (8:30 am – 3:45 pm)

"Terrorism and Targeted Violence: Threats, Tactics and Trends"

Instructor: Detective Daniel Blomquist

Since 9/11, the threat of terrorism and mass violence has remained a constant factor in American society. Despite a robust security infrastructure, the United States has not been immune to terrorism. Terrorism and targeted violence demand constant vigilance against those who enact this violence, the tactics they use to sow chaos, and protection to potential victims. In *Terrorism and Targeted Violence: Threats, Tactics and Trends*, first responders will get a first-hand look at the terrorist groups (International and domestic) and violent extremists who encourage mass attacks against American citizens. This class will cover the violent attack methods used in targeted violence attacks, as well as tactics being used against critical infrastructure targets. In 2023, attendees requested additional information on critical infrastructure targets and attack methods. This year's instruction will expand on the groups who target critical infrastructure and provide case studies on selected literature/attacks. Attendees will also be briefed on research-based, pre-violence indicators observed in mass shooting suspects, serving to help answer the question: How do active shooters behave *before* they attack? As first responders, we are tasked with removing potential violent offenders from the pathway to violence – this brief will address those behaviors through case studies in targeted violence.

"Explosives Awareness" - Second minor portion of morning session and all the afternoon session –

Instructors: Detective Christopher Nicholson and Sergeant Frank Fucellaro

This class is designed to give first responders basic awareness of energetic materials and their dangers. Topics covered will include types of explosives, dangers posed by explosives, improvised explosive device (IED) awareness, and homemade explosive and precursor identification. The presentation is concluded with a case study of the 2018 Austin, Texas serial bomber case. An explosive demonstration will be conducted on the DSFS drill grounds, weather dependent.

Instructors Bio:

1. Detective Daniel Blomquist, Task Force Officer with FBI's Joint Terrorism Task Force, Delaware State Police

Det. Daniel Blomquist began his career with the Delaware State Police in 2010, after graduating with a Master's Degree in Public and International Affairs from the University of Pittsburgh. Upon graduation from the Delaware State Police Academy, he was assigned to the Patrol Division at Troop 3, located in Kent County, DE. In 2014, he transferred to the Troop 3 Criminal Investigations Unit (CIU). During his time in CIU, Det. Blomquist was responsible for investigating sexual assaults against adults and children, serious assaults, child abuse, public corruption, missing persons, robberies, and burglaries. From 2018 to 2020, he was also a member of the statewide Human Trafficking Task Force, which is responsible for all sex and labor human trafficking investigations throughout the state. In 2020, Det. Blomquist was assigned to the Delaware State Police Homeland Security Unit as the Terrorism Liaison Officer (TLO), where he was responsible for providing active shooter training to public, private and government partners and coordinating with statewide critical infrastructure facilities on security and terrorism-related matters. In 2023, Det. Blomquist was assigned as the

Delaware State Police's Task Force Officer (TFO) with the FBI's Joint Terrorism Task Force (JTTF). In addition to his full-time role as a TFO, Det. Blomquist is also a member of the Explosive Ordnance Disposal (EOD) Team.

2. Detective Christopher Nicholson, Terrorism Liaison Officer, Delaware State Police

Detective Chris Nicholson has been employed by the Delaware State Police since 2009 and his assignments have included: Troop 5 (Bridgeville) Patrol, Troop 9 (Odessa) Patrol and a Criminal Intelligence Officer. He is currently assigned as the Terrorism Liaison Officer. Det. Nicholson has also been assigned to the Bomb Squad as a Public Safety Bomb Technician for 10 years. Det. Nicholson is a Certified Instructor for the Delaware State Police, a National Threat Evaluation and Reporting Office (Department of Homeland Security) Master Instructor, a Certified Firearms Instructor, a Trooper Recruiter, and a member of the Delaware State Police Diversity Council. Additionally, Det. Nicholson has a Bachelor of History from the University at Buffalo. Det. Nicholson has also served 17 years in the Army Reserves as a Civil Affairs Officer and currently assigned as a Jumpmaster in the 404th Civil Affairs Battalion (Airborne).

3. Sergeant Francis "Frank" Fucellaro, Explosive Ordnance Disposal Team Commander, Delaware State Police

Sergeant Francis "Frank" L Fucellaro II is a 24-year veteran of the Delaware State Police and has been a Hazardous Devices Technician for 20 years. In July 2021 he became the EOD Team Commander for the Delaware State Police, currently supervises a fourteen-member team with 10 certified techs covering the State of Delaware. Sgt. Fucellaro has taken numerous courses throughout his tenure as a Bomb Technician involving Homemade Explosives, Large Vehicle Bombing, Advance Disposal of Explosive, Post Blast, Explosive Breaching, Advance Electronics, and Tactical Bomb Technician. Sgt. Fucellaro is The International Association of Bomb Technicians and Investigators Delaware Chapter Director. He is also the OIC of the Delaware State Police Critical Incident Stress Management Team that focuses on the Mental Health of Divisional Members.



Session 2 (8:30 am – 11:45 am)

"It's not your heart.....it's your head"

Instructor: Frank Docimo, CEO Docimo and Associates, LLC

This session is a "YOU KNOW ME" first-hand account of what PTSD is, recognizing the signs and symptoms, and suicide prevention tips.

For the tenth year in a row, firefighter suicides in 2020 exceeded the rate of on-duty deaths by about 30% on average, with this year following a similar path. A 2020 study found not only are first responders more likely to die by suicide than on duty, but rates of depression and post-traumatic stress disorders among firefighters have been found as much as [five-times higher](#) than that of the general population.

From the federal level, to departments in rural areas, there is a cultural shift in addressing more than physical health in the firehouse.

After almost 38 years in the Fire service, I was forced to retire (July 2012) within 6 months of my diagnosis of severe PTSD, anxiety and depression. After many years of attending critical incidents such as fatal car accidents, fires, suicides, and a building collapse it all became too much for me. I have felt intense self-hatred, fear, and more often, numbness. I have at times been close to just walking away. With the help of family, friends, and counseling, I am moving on with my life.

This session is part of my recovery.

Instructor Bio: Frank Docimo, CEO Docimo and Associates, LLC

Frank Docimo has been affiliated with the fire service for over 40 years. During his career he has held the position of Special Operations Officer for the Turn of River Fire Department and was assigned to HAZMAT 1 in the City of Stamford, Connecticut. Mr. Docimo has served as the co-chairperson of Stamford's Local Emergency Planning Committee and team leader for one of the city's Response Teams.

Frank has been an adviser to several state legislative committees on the hazardous materials problems in Connecticut. As the Chief Instructor in charge of the Hazardous Materials Program for the Connecticut State Fire School (1988—89), Mr. Docimo was instrumental in the development of the Hazardous Materials Technician Program.

During the year 1992, Mr. Docimo was honored with two prestigious training awards. He received the Connecticut Instructor of the Year award and was also recognized for his expertise and skills as a teacher when he was awarded the National Instructor of the Year for 1992. During the year 2001, Mr. Docimo was the recipient of the Hot Zone's "In the Zone" Award, for his life-long commitment to first responders' safety.

In the fall of 1998, Mr. Docimo was selected as a subject matter expert to participate in a need's assessment and formulation of curriculum for the nations; responders to terrorist activities. The workshop entitled "Emergency Response to Terrorism; Tactical Considerations" was a joint project of the National Fire Academy, FEMA and the Bureau of Justice. As a result of his involvement both Mr. Docimo's four stages of Decon method and his advanced risk assessment process (known as the Docimo Model Role) have been incorporated into the core curriculum.

Frank also holds the following certificates and accreditations,

- ❖ National Fire Protection Association (NFPA) Certified Firefighter One, Two and Three
- ❖ NFPA Certified Instructor One and Two
- ❖ Certified Hazardous Material Technician
- ❖ Certified Hazardous Materials Specialist
- ❖ Certified Hazardous Materials Safety Officer
- ❖ Certified Haz-Mat Planner SARA III program

Presently, Mr. Docimo is working on his Master Degree in Homeland Security.



Sessions 3 & 11 (8:00 am – 4:30 pm)

"Risk Based Response to CNG Vehicle Emergency's" – Parts 1 & 2

Instructor: Chris Gould

Hazard 3 Training, CNG Vehicle Emergency an 8-hour on-site instructor led training course on Risk-Based Response to compressed natural gas (CNG) Vehicle Emergencies including classroom and hands-on skill stations. Maximum of 30 students. This course will prepare personnel to conduct a risk-based response to incidents involving a compressed natural gas (CNG) vehicle, including leaks and fires.

COURSE TOPICS

- CNG fuel system components
- Common incidents and hazards
- CNG commercial and passenger vehicles
- Risk-based response considerations
- Emergency shut down methods
- CNG damage assessment
- Depressurizing and defueling tactics
- CNG vehicle fires

Instructor Bio:

Chris Gould

Chris currently resides on the west central coast of Florida and is a Battalion Chief with Southern Manatee Fire Rescue where he has spent over nine years as Manatee County's Hazardous Materials Response Team Leader. He started his career in 1990 as a firefighter with Southern Manatee Fire Rescue and moved into Special Operations in 1996 specializing in hazardous materials response. Chief Gould is a member of the Tampa Bay Emergency Planning Committee (LEPC) and is an active member of the Training Sub Committee. He is a Florida Certified: Hazardous Materials Technician, Arson Investigator, Instructor, Fire Inspector II, Paramedic, Firefighter, and regularly instructs various hazardous materials and drone related classes throughout the country. He holds an Associate of Arts degree in Business Management and an Associate of Science Degree in Fire Science and is an Instructor at Florida's Annual Hazardous Material Symposium and has presented Haz Mat programs at the CBRNe World Convergence, Washington Council of Governments, and TRANSCAER among many others. He has been a pioneer in regards to utilizing drones for sampling and plume tracking during large scale industrial hazardous materials incidents, but is often called upon to assist other jurisdictions with CNG related incidents. In 2014 drawing from his experience with large commercial vehicle fires he identified life threatening hazards that CNG powered vehicles pose to responders where incorrect tactics can cause these vehicles to explode sending shrapnel up to three quarters of a mile away. He teaches a program that allows responders to safely respond to these incidents and then safely dis-arm the damaged and potentially explosive CNG cylinders when no other options are available.



Sessions 4 and 12 (8:30 am – 3:45 pm)

"Its Only Smoke!" – Parts 1 & 2

Instructor: Darryl Meade

This program will discuss the different types of hazmat that are present at every fire scene. The program consists of classroom instruction and then practical evolutions where the student will be part of conducting test burns of different items that are found in an everyday household. Several types of meters and testing equipment will be used to show the chemical levels that are present when certain items burn and how long it takes for these chemicals to dissipate. Testing will consist of the atmosphere as well as the gear that is worn during these burns. FULL Turnout gear is required for the practical evolutions of this class...SCOTT SCBA will be provided. DECON will be set up for personnel and gear after the practical evolutions are concluded. Instructor

Instructor Bio:

Darryl Meade has over 40 years in the Fire Service. He currently serves as Assistant Chief for the FMC Company in Newark, Delaware. Meade is HAZMAT, Rope Rescue, Firefighter Pro Board Certified Instructor II. Assistant Chief Meade has been an Instructor at the Delaware State Fire School over 20 years, a member of New Castle County Industrial Hazardous Materials Response Alliance and serves on its training committee. He serves as a trainer and is part of New Castle County Special Operations HazMat Decon Team. Meade served for Nottingham and Oxford townships as Radiological HAZMAT Officer. He formerly was a responder of the Chester County, PA HazMat Response Team, and was past member of West Grove Fire Company. He is currently a member of Chesapeake City Fire Company, MD.

Sessions 5 and 13 (8:30 am – 3:45 pm)

"Biological Warfare Agents (BWA): From the Past to the Present and What Does It Mean For Our Future" – Part 1 & 2

Instructor: Carrie A. Poore, Ph.D., Advanced CBRNE Training Branch Chief

This course will provide an overview of traditional biological warfare agents such as bacteria, viral materials and toxins. In depth case studies from various biological agent events throughout history. Both naturally occurring and bad actor biological examples will be discussed. Students will be shown simulated laboratory processes that could be employed by bad actors to enhance visual recognition of the most-likely synthesis routes for clandestine and sophisticated preparation of biological agents. Instructors will place special emphasis on the clandestine synthesis and terrorist employment of biological agents. In addition, future methodologies for the genetic manipulation of biological materials will be proposed.

Instructor Bio: Carrie A. Poore, Ph.D., Advanced CBRNE Training Branch Chief, Biologist, Research and Operations Directorate, DEVCOM Chemical Biological Center (CBC) at Edgewood

Dr. Poore serves as the Branch Chief for the Advanced CBRNE Training Branch within the Directorate of Research and Technology for the U.S. Army Combat Capabilities Development Command Chemical Biological Center. She has over 16 years of postgraduate experience at ECBC. As the Branch Chief, she leads the execution of training programs and also trains the biology portions of the courses for customers throughout Department of Defense, Department of Justice, Department of State, National Guard Bureau and other federal, state, and local assets involved in the counter-WMD fight. Dr. Poore led the training program for the 20th Support Command's Heavy Mobile Expeditionary Laboratory that covered the entire suite of analytical instrumentation, shelter, and supporting equipment. She also has experience in the development of biological agent detection platforms and has evaluated existing bio detection systems including: a DHS funded program for the development of a microtiter screening tool for the screening of biological agents in suspicious powders, an FDA funded method of validation study for the detection of biological material in various food matrices using electrochemiluminescence, a Smiths Detection funded *Ricinus communis* DNA method evaluation, and a DHS funded evaluation of three generic screening tools for the analysis of biological agents in suspicious powders. She had the lead scientific role in the development of several mobile laboratories and kits for the following customers: 20th Support Command DNA Identification Lab, New York City Public Health All Hazards Receipt Facility (BSL-2/3), Defense Threat Reduction Agency (DTRA) Divable Chem/Bio Sampling Kit, and DTRA Biological Assessment Mobile Laboratory (BAML). She operated and validated the BAML as the lead biologist during an Advanced Test Demonstration.

Sessions 6 and 14 (8:30 am – 3:45 pm)

“High Pressure Cargo Tank Emergency Response Workshop” – Parts 1 & 2

Lead Instructor – Michael Moore

Supporting Instructor – Dave Wolf

Course Description

“High Pressure Cargo Tank Emergency Response Workshop”

If you are looking for good street-smart advice to apply to your next compressed gases cargo tank incident, this class was made for you! Come along with us as we discuss the MC-330, 331, 338 and other high-pressure cargo tanks, their construction features, emergency devices and considerations that must be considered in the event of a roll-over, fire or other emergency involving these vessels. If you have ever enjoyed an episode of “How It Is Made”, you are going to love this class. Join the Pros at Safe Transportation Training Specialists for an enlightening demonstration that includes the use of unique cargo tank models and simulators, designed to educate and entertain. This multimedia presentation will begin by focusing on unique properties and behavior of compressed gases and the application of this knowledge to incidents and accidents involving cargo tanks. The instructor will take the class on a journey of lessons learned throughout the history of the fire services and the tragic consequences that should never happen again. The program will then progress to cover everything from construction features of the vessel to emergency devices and the application of this information to better decision-making, roll-overs, fires and other incidents involving this vessel. The presentation will conclude with hands-on review of unique cargo tank models,

Course Objectives

Understand the significant differences between the MC-330 and MC-331 Cargo Tanks. Understand the critical nature of cargo tank identification and application of specification information to each incident. Understand the function and purpose of safety devices associated with gasoline cargo tanks. Understand specific response actions that may be applied to rollovers, fires and varying incidents involving various high-pressure cargo tanks. Understand the unique qualities and behavior of compressed gases and application of proper actions to mitigate the incident safely.

Instructors Bios:

Michel A. Moore - Michael is the Operations Manager and a founding partner of Safe Transportation Training Specialists (STTS); a Carmel, Indiana based company established in 1999 that specializes in cargo tank emergency response training models, simulators, tools and other associated products.

Michael is primarily responsible for the design and development of STTS's unique training models, curriculum development and instruction. Formerly, he served with Chemical Leaman Tank Lines (CLTL) in the Mechanical and Tank Cleaning Division, overseeing process steam generation and waste management for the St. Louis, MO Terminal from 1979 to 1994. In 1994 Michael joined the Chemical Leaman Tank Lines Safety Department at the Corporate Training Center and instructed new employee orientations and continued to serve as on the corporate emergency response team where he responded to hundreds of cargo tank accidents and incidents. Michael concluded his career in the bulk transportation industry in 1999 to become a founding partner at STTS.

Along with his tenure at CLTL and STTS, Michael continues his 42nd, year in Public Safety and Emergency Response by serving as a Part-time Firefighter with the City of Westfield Fire Department and Hamilton County, IN Emergency Response Team.

As an active member of his community Michael has also served as a Chairman of the Hamilton Co. LEPC Resource Committee and has served as a TRANSCAER & Operations Respond Instructor.

Additionally, he teaches on behalf of the Indiana Propane Gas Association and the Indiana Alliance of Hazardous Materials Responders.

A lifetime goal for Michael is to practice this –Ralph Waldo Emerson quote “ It is one of the most beautiful compensations of this life that no man can sincerely try to help another without helping himself.”

Dave Wolfe - Dave is the General Manager and a founding partner of Safe Transportation Training Specialists (STTS); a Carmel, Indiana based company established in 1999 that specializes in cargo tank emergency response training, props, simulators, tools and other associated products.

Dave oversees the day-to-day operations of STTS, curriculum development, instruction and product development. Formerly, he served with Chemical Leaman Tank Lines as a Division Safety Manager and Director of Training and Emergency Response from 1991 to 1999.

During his tenure at Chemical Leaman, Dave was responsible for the development and training of the largest driver workforce in the cargo tank industry and an emergency response team consisting of 80+ personnel. As a veteran of the emergency response community Dave has responded to countless cargo tank incidents and became a benefactor in coordinating the corporate response to many others.

As a active member of his community Dave has also served as a State Coordinator for TRANSCAER and spent significant amounts of his time training members of the fire service across the US and Canada. He has served as a Chairman and Vice -Chairman of the Hamilton Co. LEPC and member of that county's emergency response team. Additionally, he has served on the Indiana Emergency Response Commission's Training Committee and is the former Treasurer of the Indiana Alliance of Hazardous Materials Responders.

Among life goals Dave would like to achieve "World Peace" however, he is willing to settle for everyone returning from their last call safely!!



Sessions 7 and 15 (8:00 am - 4:30 pm)

"Risk-based Response to Battery Emergencies" – Parts 1 & 2

Instructor – Toby Frost

This 8-hour course includes classroom and hands-on training to prepare responders to conduct risk-based response to battery emergencies for multiple types of batteries including Lithium-Ion (Li-Ion). The course covers batteries found in transportation including passenger vehicles, ground transport, air and sea shipping, as well as residential, commercial, and industrial settings.

COURSE TOPICS:

- Battery construction and chemistry
- Recognition and identification
- Understanding direct current (DC)
- Battery hazard and risk assessment
- Recognizing and responding to thermal runaway
- Response considerations
- Air monitoring
- Battery fire strategy and tactics

Instructor Bio:

Tobias Frost

Toby Frost began working in the hazmat industry in 1987 as a remediation project manager in university and industrial settings. After transitioning to commercial construction, he joined the fire service in 1999. Toby Frost is currently a Battalion Chief with the Lafayette Fire Department in Indiana. He is a Team Leader for their HazMat Team and is the founder of their Illicit Lab Response Team. He is a department instructor for fire fighters, recruits, and local industry teaching fire science, technical rescue and hazardous materials. He is a continuing lecturer at Purdue University in the School of Natural Resources and Environmental Sciences. He has presented across the country at hazmat conferences including the IAFC International Hazardous Materials Conference, The Hot Zone, and at the Fire Department Instructors Conference (FDIC). In 2018, Toby was recognized by the IAFC Hazardous Materials Committee with their "Level A" Award and in 2019, the "In the Zone Award", at the Houston Hot Zone Conference. As a contract instructor Toby has helped train federal, state and local responders across the country and internationally, including at the National Fire Academy. Toby serves as a HazMat Manager and Rescue Specialist for FEMA -INTF-1. Toby is a principal member of the NFPA Hazardous Materials Committee and a current Board Member for the Indiana Alliance of Hazardous Materials Responders. Toby is a graduate of Eastern Kentucky University with a BS in Fire Science Engineering Technology and a graduate of the NFA Executive Fire Officer Program. Toby is a Training Program Manager for Safeware, Inc./Hazard 3.



Sessions 8 and 16 (8:30 am – 3:45 pm)

Radiological Game Day – Parts 1 & 2

Radiological Game Day will provide responders with an opportunity to learn and/or reinforce their radiological response knowledge through "competition". And of course, there will be prizes! Also, "cheating" will be encouraged through the use of provided

reference materials! Categories to be discussed during the knowledge competition include common radiological sources, detection devices, dosimetry, PPE, protective action guidelines, radiological zones, shielding, entry times, and radiological survey and decontamination. Skills to be demonstrated during the skills competition include the use of detection devices, implementation of radiological zones, shielding, entry times, and radiological survey and decontamination. This is the only conference class you'll ever attend that utilizes black lights and (not - anatomically correct) blow-up dolls!

Instructor Bio:

Cheryl Weaver - Docimo

When she was a teenager, the incident at Three Mile Island on March 28, 1979 was a life - changing event for Cheryl Weaver - Docimo. One factor that became apparent to Cheryl was the fear of the event on the part of the citizens, as well as the responders, which resulted from a lack of understanding of radiation. When the crisis ended, Cheryl made a decision to learn as much as she could about radiation. Years later, during her senior year of high school, Cheryl was given the opportunity to do independent studies in physics and biology, and she spent her senior year experimenting with radiation.

Following graduation, Cheryl attended a school of radiological technology, and after working in the field for about one year, she accepted her first faculty position with the School of Radiological Technology at Penn State University Hospital. But the first responder community always held a special place in Cheryl's heart and she continued to volunteer in emergency services. In January of 2000, she joined the staff of Docimo & Associates, LLC to work as an educator for first responders. Through 2012, she held the position of Vice President of Operations and was the company's radiological trainer. Cheryl also established her own business, "RadResponse, LLC" in August of 2009 which she still runs today. The sole focus of RadResponse is to provide first responders with an education in radiological response. In October of 2011, she was selected as a recipient of the "In the Zone Award" at the 2011 Hotzone Conference. She was the first woman to receive the award which was presented to her in recognition for her "contributions and commitment to responder health and safety through education and training". In April of 2010, her career came full - circle when she accepted a position as a contract FEMA Radiological Emergency Preparedness (REP) Evaluator and she continues as an evaluator today. The REP program was developed and implemented as a result of the Three Mile Island incident in 1979. Cheryl has remained active in emergency services, from her early years as a junior member to her later years, holding multiple operations and administrative officer positions. A 34-year veteran of the fire and EMS services, Cheryl also served as a specialist with a regional hazardous materials response team in south central Pennsylvania and she currently participates as a subject - matter expert for the team.



Session 10 (12:30 pm – 3:45 pm)

Repeat of Session 2- "It's not your heart.....It's your head"

See Session 2 for course description and instructor Bio



"No Cost" for Workshop Attendees!

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Hosted by

Delaware State Fire School – 1461 Chestnut Grove, Dover, DE 19904



"Educating Responders for Today and Tomorrow"

**For Questions Regarding this Workshop Contact:
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Workshop Partners include:

