



State of Delaware

16th Annual Hazardous Materials Training Workshop



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Workshop Training Sessions

Course Descriptions and Instructor Information

Saturday, May 13, 2023

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 12, 2023

“Educating Responders for Today and Tomorrow”

Sessions 1 and 9 (8:30 am – 3:45 pm)

“Drone Basics”

Instructor: Chad Ingram

This class will present the student with the basic knowledge of the operations of drones as well as an understanding of the required certification to do it the “Right Way”. Hands on use of basic drone skills will be part of this program.

Instructor Bio: Chad Ingram

Chad Ingram has been an active firefighter in Delaware since 1995, where he has held many leadership offices, including Fire Chief. Chad completed his instructor training and began working for the Delaware State Fire School as a field instructor in firefighting and HazMat programs. In 2016, he was hired full time as a Training Administrator at the school where his was in charge of Officer Development, Firefighting, and the DSFS sUAS program. In January 2023 Chad was promoted to Deputy Director where amongst other duties he remains responsible for the sUAS program. Chad is nationally certified as a Fire Officer III / Instructor III as well as a FAA Certified Part 107 sUAS Pilot.



Session 2 (8:30 am – 11:45 am)

“It’s not your heart.....it’s your head”

Instructor: Frank Docimo

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 (8:30 am – 11:45 am)

"Hydrogen Safety"

Instructor: Darryl Meade

With the increased use of hydrogen in the industrial setting, especially at locations such as Amazon and others, there is an increase in the mis-understanding of the characteristics and possible dangers associated with Hydrogen. This class will enlighten the student as to the characteristics of hydrogen and how to recognize a hydrogen powered vehicle versus a Natural gas or LPG vehicle, plus the difference in storage and filling stations. This class will also include demonstrations of how hydrogen is produced and burns.

Instructor Bio:

Darryl Meade

Over 38 years in the Fire Service. Currently serves as Assistant Chief for the FMC Company in the Wilmington, DE area. HAZMAT Technician, Firefighter and Instructor- Pro Board Certified Assistant Chief Meade has been an Instructor at the Delaware State Fire School for 19 years, teaching mainly HazMat skills. Member of New Castle County Industrial Hazardous Materials Response Alliance and serves on the training committee. Serves as a trainer and is part of New Castle County Special Operations HazMat Decon Team. Serves Nottingham and Oxford townships as Radiological HAZMAT Officer. Formerly a responder of the Chester County, PA HazMat Response Team.



Sessions 4 and 12 (8:30 am – 3:45 pm)

TRANSCAER® Presents – "Taming the Tiger in The Tank – Tactics and Response for Anhydrous Ammonia" – Part I, Classroom Theory

Instructor: Dave Binder, Director of Quality, Safety & Regulatory Affairs and Lead Trainer in Ammonia Safety & Emergency Response Training (ASERT) program with Tanner Industries, Inc. in Southampton, PA

Get prepared to handle ammonia incidents from start to finish, beginning with an overview of anhydrous ammonia properties, transportation/containers, types of releases, trouble shooting incidents, and response recommendations; control and containment tactics from both offensive and defensive perspectives. Lessons learned will be discussed through brief illustrations of case histories involving both stationary facilities and transportation incidents as well as live release training footage.

Following a drill and safety briefing, the second half of the day will be on the drill field with live agent (anhydrous ammonia) release training, primarily performing tarp and cover operations for control and containment.

All students will receive a customized guide card for anhydrous ammonia which follows the sequence of a hazmat incident and provides specific reminders and information for anhydrous ammonia responses.

TRANSCAER® Presents – “Taming the Tiger in The Tank – Tactics and Response for Anhydrous Ammonia” – Part 2, Hands-on Training

Instructor: Dave Binder is the Director of Quality, Safety & Regulatory Affairs and Lead Trainer in Ammonia Safety & Emergency Response Training (ASERT) program with Tanner Industries, Inc. in Southampton, PA

The second half of the day will be on the drill field with live agent (anhydrous ammonia) release training, primarily performing tarp and cover operations for control and containment.

MUST BE CURRENTLY CERTIFIED AS A HAZMAT TECHNICIAN TO PARTICIPATE IN THE LIVE AGENT RELEASE EXERCISE

If you elect to participate in the live agent release exercise, SCOTT SCBA’s will be provided or you can bring your own SCBA. If you have your own Level “A” suite, you should use it for the exercise. Some Level “A” suits will be provided as available (NOTE: Level “A” suit must be inspected per manufacturers’ instructions.

Instructor Bio:
David B. Binder

David Binder is the Director of Quality, Safety & Regulatory Affairs and the Training Director of the Ammonia Safety & Emergency Response Training (ASERTSM) program with Tanner Industries, Inc. in Southampton, PA.

David facilitates safety and emergency response training programs throughout the world for industry, fire department, emergency response and emergency management personnel. He also speaks and presents at numerous Federal, State and Industry Association conferences. He is very involved and in leadership positions with various industry associations and has served on various standards committees.

David is the Chair of the Philadelphia, PA Local Emergency Planning Committee. He has served in leadership positions with the National Association of Chemical Distributors including the Responsible Distribution Committee. David serves on the National TRANSCAER Task Group and chaired the curriculum committee that put together the Anhydrous Ammonia training program.

David is a long-time faculty member of World Food Logistics Organization Institute programs including those at the University of Oklahoma, Georgia Institute of Technology (Georgia Tech University), University of California – Los Angeles (UCLA), and Arizona State University.



Session 5 (8:30 am – 11:45 am)

“Biological Warfare Agents (BWA) and Agents of Biological Terrorism”

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

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This course will provide an overview of traditional biological warfare agents such as bacteria, viral materials and toxins. Students will be shown simulated laboratory processes to enhance visual recognition of the most-likely synthesis routes for clandestine preparation of biological agents. Instructors will place special emphasis on the clandestine synthesis and terrorist employment of biological agents. Students will learn and discuss the following topics:

- History of biological weapons
- Medical effects and treatment of biological agents
- Physical properties of biological agents
- Detection of biological agents
- Effective BWA decontamination techniques

-Visual recognition of BWA synthesis routes

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

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)

“Low Pressure Cargo Tank Emergency Response Workshop”

Lead Instructor – Dave Wolf

Supporting Instructor – Michael Moore

Course Description

If you are looking for good street-smart advice to apply to your next low-pressure cargo tank incident, this class was made for you! Come along with us as we discuss the MC-306, 307, DOT- 406, 407, and other low pressure cargo tanks, their construction features, emergency devices and considerations that must be taken into account in the event of a roll-over, fire or other emergency involving these vessels. If you have ever enjoyed an episode of “How Is It 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 that are designed to educate and entertain. This multimedia presentation will begin by focusing on proper identification of the cargo tank, construction features, strengths, weakness, identification of safety devices on each cargo tank. This knowledge of each cargo tank will be applied to incidents and accidents involving cargo tanks to ensure the student understands the proper techniques to safely mitigate the situation. Following the classroom portion on each individual cargo tanks students will then have hands on demonstrations utilizing our cargo tank models and simulators.

Course Objectives

Understand the significant differences between the MC-300 and DOT-400 series of 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 low-pressure cargo tanks. Understand specific response actions that may be applied to rollovers, fires and varying incidents involving various low-pressure cargo tanks.

Instructors Bios:

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. STTS 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 from 1991 to 1999 where he concluded his 25-year carrier in the transportation industry. During his tenure at Chemical Leaman, Dave was responsible for the development and training and coordination of Chemical Leamans hazardous materials emergency response team consisting of 80 personnel. In addition, Dave also maintained responsibility for the development and training of the largest driver

workforce in the cargo tank industry. As a veteran of the transportation emergency response community Dave has responded to countless cargo tank incidents and coordinated the corporate response to many others. As an 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 County, Indiana LEPC and as member of the county's emergency response team. Additionally, he has served on the Indiana Emergency Response Commission's Training Committee and served as the Treasurer of the Indiana Alliance of Hazardous Materials Responders for over 13 years.

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

Michel A. Moore

Michael is the Operations Manager and a founding partner of Safe Transportation Training Specialists (STTS), a Noblesville, 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 on the corporate emergency response team until 1999 where he concluded his 20-year career in the transportation industry

Along with his tenure at CLTL and STTS, in 2012 Michael closed out 36 years 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."



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

"Risk-based Response to Battery Emergencies"

Instructor – Gary Sharp

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:

Gary Sharp

Biography for Gary Sharp, Partner Hazard3 Gary Sharp is the co-founder of Hazard3, a small business specializing in developing and delivering risk-based response training programs. Hazard3 training combines scientifically sound, street-smart tactics, with easy to follow response guides. Gary develops training solutions that include on-site courses with hands-on, virtual instructor led training (VILT), and microlearning. Microlearning is based on 5-minutes modules that students complete using an app on their smartphone or

tablet. More information is available at www.hazard3.com Previously Gary served as the Senior Director of Training and First Responders Solutions for a defense and homeland security contractor and as a career Deputy Fire Chief. He currently volunteers as the Program Manager for the Oakland County HazMat Team, a multi-agency joint police/fire team located North of Detroit, Michigan. Gary is a member of the NFPA Hazardous Materials Technical Committee and is addicted to Starbucks.



Sessions 8 and 16 (8:30 am – 3:45 pm)

Liquid & Gas Fire Fighting

Instructors - Various DSFS Instructors.

Liquids and Gas firefighting evolutions. This day of training is designed to provide the student with theories and skills to safely operate as a member of a firefighting team at a Flammable or Combustible Liquids or Gases incident and how to effectively control the situation using hose lines. This class involves strenuous hose operations and using hose lines on LIVE fire evolutions.

FULL TURNOUT gear (without SCBA) is required for this training.

Instructor Bios:

Various DSFS Instructors.

This Liquid & Gas Fire Fighting – Hands On

course is presented by instructors of the Delaware State Fire School. The combined total years of experience and training that these instructors have is well into 50 to 60 years of combined experience. These instructors are specifically trained in flammable gas and liquids firefighting and are well versed in the industrial environment as well as the volunteer and career fire service.



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



Session 11 (12:30 pm – 3:45 pm)

HAZMAT RIT/RESCUE CPR

Instructor – Kevin Ryan

When you think of rapid intervention teams or rapid rescue operations, hazmat isn't the first thing that comes to mind. But all forms of operations involved in the fire service require a rapid intervention team or rapid rescue operation. In this course you will learn ways to remove a down hazmat technician out of the IDLH atmosphere to the emergency decontamination area. From there you will be instructed on different techniques for the quick removal of either a class A or class B hazmat suits using your RIT/RESCUE team.

Being tasked with the duties of the RIT/RESCUE team in our profession is vital and crucial. Your mindset and team must be ready to think outside the box and adapt to any all situations that maybe thrown at you. These methods can be utilized to achieve your end goal but are not the only ones that can be performed.

Instructor Bio:

Kevin Ryan is a member of the Baltimore City Fire Department Hazmat Operations Office. He is a 30-year veteran of the fire service with 25 of those years as a hazmat responder; he is currently a Level 3 instructor. He has previously written the Buzz Blog for [Hazmat Nation](#). He can be reached at kevin.ryan@baltimorecity.gov for additional information.



Session 13 (12:30 pm – 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 demands 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. New to the class this year, attendees will 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 begin to build a framework for that process and provide an introduction to recognizing those indicators before they materialize into violent attacks.

Instructor Bio:

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, he was assigned to the Delaware State Police Homeland Security Unit as the Terrorism Liaison Officer (TLO). He is responsible for providing active shooter training to public, private and government partners and coordinates with statewide critical infrastructure facilities on security and terrorism-related matters. In addition to his full-time role as the TLO, Det. Blomquist is also DSP’s Hate Crime Coordinator and a member of the Explosive Ordnance Disposal (EOD) Team

“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:

