



# State of Delaware 16<sup>th</sup> Annual Hazardous Materials Training Workshop



## Workshop Training Sessions

### Course Descriptions and Instructor Information

**Friday, May 12, 2023**

7:15 am – 8:30 am: Registration and Continental Breakfast

8:45\* am – 4:00 pm: Training Sessions

\*Special Note: Session "E" will start at 8:00 am

Delaware State Fire School

1461 Chestnut Grove, Dover, DE 19904

See Separate Course Descriptions for Classes to be held Saturday, May 13, 2023

"Educating Responders for Today and Tomorrow"

**Sessions "A" and "G" (8:30 am – 4:00 pm)**

#### "CBRNE (Chemical, Biological, Radiological, Nuclear, High Yield Explosive) Decontamination" – Part 1, Classroom Theory

*Instructor: Joe Leonetti, New Castle County Hazmat/Decon Team Leader and Staff*

Students will review the Incident Command System (ICS) and how it relates to the decontamination process. Students will become familiar with and learn how to effectively use the standardized Personal Protective Equipment used by all hospital's EMS and First Responders. Decon Procedures and guidelines will be reviewed so that all students can safely operate in the Hazard Control Zones. (**NOTE:** This is a FULL morning 3-hour class. Hospital attendees who wish to receive DE State Fire School CEU credit must attend both Session A-CBRNE Decontamination Part 1 (Classroom) and Session G, CBRNE Decontamination Part 2 (Practical) for a total of 6 hours. This will serve as Hospital Hazmat Refresher training per hospital regulations. Other (non-hospital) attendees may register for either session.)

#### "CBRNE (Chemical, Biological, Radiological, Nuclear, High Yield Explosive) Decontamination" – Part 2, Practical Training"

*Instructor: Joe Leonetti, New Castle County Hazmat/Decon Team Leader and Staff*

Students will set up a proper Decon area and understand the need for a Decon line to be operated safely and properly. Emergency, rapid and full decontamination operations will be discussed.

**NOTE:** This is a FULL afternoon 3-hour class. Hospital personnel who wish to receive DE State Fire School CEU credit must attend both Session A -CBRNE Decontamination Part 1(Classroom) and Session G- CBRNE Decontamination Part 2 (Practical) for a total of 6 hours. This will serve as Hospital Hazmat Refresher training per hospital regulations. Other (non-hospital) attendees may register for either session.)

***Instructor Bio: Joe Leonetti, New Castle County Hazmat/Decon Team Leader***

Joe has been a member of the Delaware Fire Service for over 56 years. He has served as a Firefighter/EMT, Captain, Assistant Chief, Deputy Chief, Fire Chief and President of the Elsmere Fire Company. Joe is an instructor for the National Fire Academy, the New Mexico Tech Energetic Materials program, and with the Delaware State Fire School. Joe currently is a Commissioner with the Delaware State Fire Commission. Joe is a United States Army veteran. Joe has been the Team Leader of the New Castle County Special Operations Hazmat/Decon Team for the past 38 years. He serves on numerous State and County Hazardous Materials and Homeland Security committees.

Joe formerly served as the New Castle County Emergency Management Coordinator and the Sr. Director of Support Operations for the Saint Francis Hospital in Wilmington, Delaware.



## ***Sessions “B” and “J” (8:45 am – 4:00pm)***

### ***Advanced Meters Program Part 1 – Rapid Risk Assessment Techniques™***

**Instructor:** *Frank Docimo*

The effective control of a chemical incident is based on a good working understanding of the physical and chemical properties of the product or agent. This does not make a chemist out of a responder. But responders have to know how the enemy will behave in order to effectively deal with a hazardous material. Responders cannot begin to deal with hazardous materials incidents without a basic grasp of chemistry. Using the Docimo Model Role™ and the RRAT™ technique, anyone can understand the basic aspects of chemical behavior. Using this knowledge may save your life.

### ***Advanced Meters Program Part 2– Understanding Air Monitoring Devices***

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

Air monitoring devices have become essential tools for safe and effective response in many hazardous environments, but if the user doesn't have a basic understanding of how these devices operate, they may not be effective. Based on the METERS™ Program, this workshop will explain the technology at work in various metering devices on the market today so that hazmat responders can make informed decisions in choosing, maintaining and using them in the hot zone. Mr. Docimo's discussions will include sensor technologies, tube devices, PID/FID and IR Technologies. A sample matrix on what tools might be used for a chemical terrorist attack will also be discussed.

#### ***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.



## ***Session “C” (8:45 am – 12:00 pm)***

### ***"Biological Warfare Agents (BWA) and Agents of Biological Terrorism"***

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

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 20<sup>th</sup> 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: 20<sup>th</sup> 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 “D” and “J” (8:45 am – 4:00 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 career in the transportation industry. During his tenure at Chemical Leaman, Dave was responsible for the development and training and coordination of Chemical Leaman's 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 "E" and "K" \(8:00 am – 4:00 pm\)](#)

#### ["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](http://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 “F” and “L” (8:45 am – 4:00 pm)**

**TRANSCAER® Presents – “Taming the Tiger in The Tank – Tactics and Response for Anhydrous Ammonia” – Part 1, 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 (ASERT<sup>SM</sup>) 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 “I” (12:45 am – 4:00 pm)***

***"The Use of Biowarfare - Then and Now" (Same Title New Content)***

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

This course will take an in-depth look at case studies from various biological agent events throughout history. Both naturally occurring and bad actor biological examples will be discussed. In addition, future methodologies for the genetic manipulation of biological materials will be proposed.

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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.



***"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 Jerry Brennan:  
Phone: (302) 739-4773 or via email at [jerry.brennan@delaware.gov](mailto:jerry.brennan@delaware.gov)**

***Workshop Partners include:***

