



State of Delaware 14th Annual Hazardous Materials Training Workshop Registration Form



Location: Delaware State Fire School, 1461 Chestnut Grove Road, Dover, DE 19904

First Name:		Last Name:	
Company/Agency Name:			
Title:			
Mailing Address:		City:	State: Zip
Email Address:		Phone Number:	

Friday, May 7, 2021 8:45am – 12:00pm <i>Check ONE Morning Session:</i>		
Session A	Hospital infectious Disease & Chemical DECON, Part 1	A: _____
Session B	Advanced Meters Program, Part 1 -Risk Assessment Techniques	B: _____
Session C	The Use of Biowarfare – Then and Now	C: _____
Session D	Taming the Tiger in the Tank - Tactics and Response for Anhydrous Ammonia – Part 1	D: _____
Session E	TOX EMS – Part 1	E: _____
Session F	Haz Mat Training Using Simulation	F: _____
Session G *	Confidence in the Hot Zone – Part 1	G: _____

Friday, May 7, 2021 12:45pm – 4:00pm <i>Check ONE Afternoon Session:</i>		
Session H	Hospital infectious Disease & Chemical DECON, Part 2	H: _____
Session I	Advanced Meters Program, Part 2 – Understanding Air Monitoring Devices	I: _____
Session J	Biological Warfare Agents (BWA) and Agents of Biological Terrorism	J: _____
Session K	Taming the Tiger in the Tank - Tactics and Response for Anhydrous Ammonia – Part 2	K: _____
Session L	TOX EMS – Part 2	L: _____
Session M		M: _____
Session N*	Confidence in the Hot Zone – Part 2	N: _____

Saturday, May 8, 2021 8:30am – 11:45am <i>Check ONE Morning Session:</i>		
Session 1*	It's Only Smoke – Part 1	1: _____
Session 2	Drone Use in Hazardous Materials Response	2: _____
Session 3	Taming the Tiger in the Tank - Tactics and Response for Anhydrous Ammonia – Part 1	3: _____
Session 4	HazMat Operations in Marine Environment – Part 1	4: _____
Session 5	Biological Warfare Agents (BWA) and Agents of Biological Terrorism	5: _____
Session 6*	Confidence in the Hot Zone – Part 1	6: _____
Session 7	Natural Gas and Propane – Properties, Operation and Emergency Response	7: _____
Session 8	Commercial/Improvised Explosives Awareness	8: _____

Saturday, May 8, 2021 12:30 pm – 3:45 pm <i>Check ONE Afternoon Session:</i>		
Session 9*	It's Only Smoke -Part 2	9: _____
Session 10	HazMat Dangers During Vehicle Rescue	10: _____
Session 11	Taming the Tiger in the Tank - Tactics and Response for Anhydrous Ammonia – Part 2	11: _____
Session 12	HazMat Operations in Marine Environment – Part 2	12: _____
Session 13	DAMN....there is NO APP FOR THAT	13: _____
Session 14*	Confidence in the Hot Zone – Part 2	14: _____
Session 15A	Chemical Suicide	15A: _____
Session 15B	Air Monitoring for Fire Fighters	15B: _____
Session 16	Chemical Warfare Agents (CWA) and Agents of Chemical Terrorism	16: _____

“Due to Covid Restrictions Class sizes are limited, so Sign up early” *See course description for session requirements

To register, send completed form to: fire.school@delaware.gov or via Fax 1-302-739-6245.
For Questions Regarding this Workshop, Contact Jerry Brennan:
Phone: (302) 739-4773 or via email at jerry.brennan@delaware.gov



State of Delaware 14th Annual Hazardous Materials Training Workshop



◆◆◆◆◆ Workshop Training Sessions

Course Descriptions and Instructor Information

Friday, May 7, 2021

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

8:30 am – 8:45 am: Opening Remarks

8:45 am– 4:00 pm: Training Sessions

Delaware State Fire School

1461 Chestnut Grove, Dover, DE 19904

See Separate Course Descriptions for Classes to be held Saturday, May 8, 2021

“Educating Responders for Today and Tomorrow”

Session’s “A” and “H” (8:45 am – 4:00 pm)

“Hospital-EMS-First Responder Infectious Disease and Chemical Decontamination” – Part 1, Classroom Theory

Instructor: Joe Leonetti and staff, Sr. Director of Operations, Emergency Management Safety & Security, Saint Francis Hospital, Wilmington, DE

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 properly 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 personnel who wish to receive DE State Fire School CEU credit must attend both Session A-Hospital DECON Part 1 (Classroom) and also Session H, Hospital Decon Part 2 (Practical) for a total of 8 hours Hospital Hazmat Refresher training for the day. Other (non-hospital) attendees may register for either session.)**

“Hospital Infectious Disease and Chemical Decontamination” – Part 2, Practical Training”

Instructor: Joe Leonetti and Staff, Sr. Director of Operations, Emergency Management Safety & Security, Saint Francis Hospital, Wilmington, DE

Students will set up a complete 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 -Hospital Decon Part 1(Classroom) and also Session H- Hospital Decon Part 2 (Practical) for a total of 8 hours of Hospital Hazmat Refresher training for the day. Other (non-hospital) attendees may register for either session.

Instructor Bio: Joe Leonetti, Director Emergency Management Safety & Security, Saint Francis Hospital, Wilmington, DE

Joe has been a member of the Delaware Fire Service for over 54 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.



Session's "B" and "I" (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)

“The Use of Biowarfare – Then and Now”

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.

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.



Session’s “D” and “K” (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 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

David has been in the ammonia industry and emergency response training and planning since 1992. 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

David is the Chair of the Philadelphia Local Emergency Planning Committee. He has served in leadership positions with the National Association of Chemical Distributors including the Responsible Distribution Committee. David is a member of the National TRANSCAER® Task Group and previously served as Vice Chair of the Executive Committee and chaired the curriculum committee that put together the TRANSCAER® Anhydrous Ammonia program. David is a faculty member of World Food Logistics Organization Institute at the Georgia Institute of Technology (Georgia Tech University) and Arizona State University, and previously at the University of Oklahoma and University of California – Los Angeles (UCLA).



Session's "E" and "L" (8:45 am – 4:00 pm)

TOX EMS

Instructors: Fred Haas, Lt. Dave Mick, Benjamin Lewis, Brandon Roger

TOX EMS - Part 1

This session will describe initial actions for a medical provider when presented with a patient exposed to hazardous materials or toxic substances. We will review basic patient approach and scene size up. Participants will view a variety of information sources for medical providers - NIOSH Pocket Guide, ERG, SDS, and WISER. Next, we will review basic decontamination requirements and learn how to adapt basic materials available at most scenes for use in the decon process. The session will conclude with practical experience in research, PPE, and decontamination.

Due to COVID restrictions, we will not be able to exercise in full respiratory PPE during the hands-on sessions. Students are encouraged to bring their own respiratory protection equipment and eye protection if available - full-face respirator (APR), powered-air-purifying respirator (PAPR). Note: Self-contained breathing apparatus (SCBA) are not required.

TOX EMS - Part 2

Building upon the basics reviewed in part one, this session will focus primarily upon the medical care required for patients exposed to hazardous materials and toxic substances. First, participants will review a variety of toxidromes - groupings of toxic substances with related effects on the body. We will then review basic patient care protocols for managing these patient presentations. The session will conclude with a variety of hands-on scenarios where providers will have opportunities to assess and manage exposed patients. This presentation is intended for all levels of medical provider as it will focus on basic through advanced care with particular emphasis on the teamwork required to effectively manage these patients.

Due to COVID restrictions, we will not be able to exercise in full respiratory PPE during the hands-on sessions. Students are encouraged to bring their own respiratory protection equipment and eye protection if available - full-face respirator (APR), powered-air-purifying respirator (PAPR). Note: Self-contained breathing apparatus (SCBA) are not required.

Instructor Bios:

Fred Haas

Mr. Haas is the Paramedic Shift Commander-Health and Safety Officer for Sussex County EMS. In addition, he is a member of the department's Hazardous Materials Medical Response Team and their Tox-Medic coordinator. He also works for the Delaware Office of EMS as their Domestic Preparedness Coordinator. Mr. Haas holds a B. S. in Healthcare Administration with a certificate in Occupational Safety and Health. Also, in the area of HazMat education, he authored an article in Fire Engineering magazine concerning the ToxMedic program. Finally, Mr. Haas is a member of the Selbyville Volunteer Fire Company and an instructor for the Delaware State Fire School.

Lt. David Mick

Special Operations Officer, KCEM

Paramedic 25+ years

Kent County Hazmat Decon, Hazmat Technician

Carlisle FD 45 years, Chief Engineer 6 years

Kent County Special Operations Team:

- Rope Rescue
- Trench
- Confined Space
- High Angle Technician
- Safety Officer

Benjamin Lewis, NRP, BS, FP-C

Benjamin is a Paramedic II for Sussex County EMS. He is a member of the department's Hazardous Materials Medical Response Team, as well as the department's clinical simulation team. He holds a B.S. in Criminal Justice with a concentration in Counterterrorism, and has a strong clinical interest in providing high-quality, evidence-based patient care in challenging operational conditions. Benjamin is also a member of the Sussex County Technical Rescue Team.

Brandon Rogers, NRP

Brandon has been a Paramedic II for Sussex County EMS for 14 years. During that time, he has been a member of the Hazardous Materials Medical Response Team for approximately 10 years as a Paramedic/Hazmat Technician. Brandon also represented the department as a member of the Competition Team for 6 years, 5 of which he served as Captain. During that time our team won a Bronze medal at the 2016 Can Am Games and a Gold medal at JEMS in 2018. During his time with SCEMS, he has also held the position of Field Training Officer. Outside of the department, Brandon was a Clinical Instructor for the Delaware Tech Paramedic Program.



Session "F" (8:45 am – 12:00 pm)

"Haz Mat Training Using Simulation"

Instructor: Tucker Dempsey

This session will demonstrate the use of computer simulation in hazardous materials response. It will cover two simulation programs and their specific uses. In addition to simulation, it will also discuss how the Blue Card Command system has been adapted to hazardous materials and will present a few different scenarios that illustrate it.

Instructor Bio: Tucker Dempsey

William "Tucker" Dempsey has been an active volunteer firefighter in Delaware since 1986, where he has held several offices, including Fire Chief. He worked as a career Firefighter/EMT for 15 years while also working as a Field Instructor for the Delaware State Fire School. In 2011, he was hired full time as a Training Administrator at the school where he is in charge of officer development courses. He is also the leader of his county technical rescue team and state helicopter rescue team. He holds degrees in Fire Protection, Emergency Services Management, and Fire Science and is a nationally certified Fire Officer III and Instructor III. He is

also a licensed drone pilot under FAA Part 107 and the chairman of the State of Delaware UAS Training & Certification Steering Committee.



Session's "G" and "N" (8:30 am – 3:45 pm)

"Confidence in the Hot Zone - A Challenge for the Technician Level Responder" – Part 1 & Part 2

Instructors: Dave Wolfe, Michel A. Moore, Gregory Lynn Socks

This 6-hour course is dedicated to *technician level responder* and is designed to build confidence in the responder's ability to survive in-suit emergencies and overcome physical and mental restrictions encountered while working within the Hot Zone. Entering the Hot Zone will always be a physical and mental challenge to say the least. However, challenges and stress can be minimized with knowledge, confidence and practical experience. This course is 50% hands-on and will require all students to complete a confidence course in Level A Protection. Challenges encountered during the confidence course will include addressing cargo tank leaks, rebuilding valves, overcoming physical restrictions and much more. This course exceeds OSHA 1910.120 requirement for annual refresher training.

Course Objectives:

Participants will:

- Understand basic chemical & physical properties of hazardous materials relating to the selection & use of chemical protective clothing.
- Understand the implications of harm to the emergency responder & protective clothing.
- Be familiar with chemical protection levels, style and classification.
- Be familiar with and perform survival techniques taught in the classroom to demonstrate individual competency.
- Actively participate in a classroom risk assessment exercise and task-oriented confidence course utilizing chemical protection clothing in a simulated hot zone.

Instructor 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 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 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 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!!

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 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."

Gregory Lynn Socks (Captain, MCFRS, ret.)

Principal Consultant, Emergency Management Solutions, Inc.

Gregory Socks career spans over 45 years of emergency response, planning, and training in the Fire and Hazardous Materials disciplines. His career as a firefighter started in 1977 with the Montgomery County, MD Fire and Rescue Services in the National Capital Region of Suburban Maryland. At the ranks of Sergeant, Lieutenant, and Captain Greg's assignments included Hazardous Materials Training Coordinator, Station Commander, Hazardous Materials Officer, Shift Commander, and Assistant Team Coordinator for Hazardous Materials Operational Responsibilities.

In 1986, Greg was appointed as the first Team Coordinator of the Washington County, MD Hazardous Materials Response Team. He served as Team Coordinator for over 10 years while building a nationally recognized organization. Greg's certifications include Firefighter III, Fire Instructor III, Hazardous Materials Instructor, Fire Officer Development, and Hazardous Materials Team Specialist. Greg also obtained NPQ certification as an Instructor III, Hazardous Materials Awareness, Operations, Technician, and Marine Firefighter I and II. He holds an associate degree in Fire Science Technology.

Greg was a lead hazardous materials instructor at Maryland Fire and Rescue Institute and Montgomery County, MD Fire and Rescue Public Safety Training Academy. Greg has presented Hazardous Materials programs to municipal, industrial and military clients and conferences throughout the country. In 2012, Greg received the prestige International Association of Fire Chiefs (IAFC) Hazardous Materials Response Teams Conference ("Level A" Instructor Award) and 2016 Hot Zone Conference ("In the Zone" Instructor Award).

In 2019, Greg was honored by the International Association of Fire Chiefs (IAFC) as the recipient of the John M. Eversole Lifetime Achievement Award for his leadership and contributions to further and enhance the hazardous materials emergency response profession. Greg has also assisted with the development of Hazardous Materials training programs which has been used outside the State of Maryland. Greg has served on numerous State of Maryland committees and focus groups for new technology. Greg has received numerous certificates, unit citations, and recognition letters from MCFRS, ATF, FBI, US Army, and Department of Defense. Greg is one of the five partners/principal consultants with PENTA Consortium, LLC which is a newly formed global preparedness and crisis management firm that addresses client needs for NIMS ICS, IMT Response, Gap Analysis Studies, Hazardous Materials, Maritime, Emergency Management Planning, Training, and Exercises.



Session “J” (12:45 pm – 4:00 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 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.



Session “M” – NO SESSION



“No Cost” for Workshop Attendees!

State of Delaware – 14th Annual Hazardous Materials Training Workshop

Hosted by

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



State of Delaware

14th Annual Hazardous Materials Training Workshop



◆◆◆◆◆
Workshop Training Sessions

Course Descriptions and Instructor Information

Saturday, May 8, 2021

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

8:30 am – 3:45 pm: Training Sessions

Delaware State Fire School

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See Separate Course Descriptions for Workshop Classes to be held Friday, May 7, 2021
“Educating Responders for Today and Tomorrow”

Session’s 1 and 9 (8:30 am – 4:15 pm)

“It’s Only Smoke!”

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 Bio: Darryl Meade

Over 37 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 18 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.



Session 2 (8:30 am – 11:45 am)

Drones

Instructor: Tucker Dempsey

This session will include a demonstration of a drone using a thermal camera and a regular camera.

Instructor Bio: Tucker Dempsey

William “Tucker” Dempsey has been an active volunteer firefighter in Delaware since 1986, where he has held several offices, including Fire Chief. He worked as a career Firefighter/EMT for 15 years while also working as a Field Instructor for the Delaware State Fire School. In 2011, he was hired full time as a Training Administrator at the school where he is in charge of officer development courses. He is also the leader of his county technical rescue team and state helicopter rescue team. He holds degrees in Fire Protection, Emergency Services Management, and Fire Science and is a nationally certified Fire Officer III and Instructor III. He is also a licensed drone pilot under FAA Part 107 and the chairman of the State of Delaware UAS Training & Certification Steering Committee.



Session's 3 and 11 (8:30 am – 3:45 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.

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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 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

David has been in the ammonia industry and emergency response training and planning since 1992. 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

David is the Chair of the Philadelphia Local Emergency Planning Committee. He has served in leadership positions with the National Association of Chemical Distributors including the Responsible Distribution Committee. David is a member of the National TRANSCAER® Task Group and previously served as Vice Chair of the Executive Committee and chaired the curriculum committee that put together the TRANSCAER® Anhydrous Ammonia program. David is a faculty member of World Food Logistics Organization Institute at the Georgia Institute of Technology (Georgia Tech University) and Arizona State University, and previously at the University of Oklahoma and University of California – Los Angeles (UCLA).



Session's 4 and 12 (8:30 am – 3:45 pm)

HazMat Operations in the Marine Environment

Instructors: Douglas Dillon, USCG (RET), Allen Huelsenbeck

This course was developed recognizing that many departments and agencies do not have exposure to large commercial vessels within their jurisdiction, but may have extensive waterfronts. This is an introduction to the problems associated with marine responses including jurisdiction, operating in the marine environment, terminology, marine types of ships & facilities, problems unique to marine responses, tactical considerations, safety and incident management. This course is designed to allow HazMat Responders to perform basic Hazardous Material Operations Level actions in the Marine Environment targeting commercial vessels. The training includes some Marine Awareness level training developing students' skills in working in the Marine Environment. Students will be exposed to Air Monitoring requirements in determining Hot, Warm and Cold zones to support Marine Firefighting efforts as required by NFPA 1005. Operations such as Decon Operations onboard vessel and remote operations are addressed.

Instructor Bios:

Douglas Dillon, USCG (RET)

Douglas Dillon is Executive Director of the Tri-state Maritime Safety Association and Chief of the DE/NJ/PA Maritime Incident Response Team. He is a 23-year veteran of the United States Coast Guard. He is a Pro-Board Certified Marine Firefighter 2 and Marine Firefighting Instructor for Land-based Firefighters (NFPA 1005) and a USCG Approved - Adjunct Instructor of Basic and Advanced (STCW) Marine Fire Fighting for Maine Maritime Academy. He is a Coast Guard and NJ certified HazMat Technician and HazMat Incident Commander. He was the Port Safety and Security Officer for the Fifth Coast Guard District during DESERT SHIELD/STORM and was responsible for training and equipping the Port Security Detachment in the 5th District. He supervised all port security at outload operations in the Port of Wilmington, NC during OPERATION UPHOLD DEMOCRACY. His responsibilities included developing and implementing regional and local contingency plans and operations. He was a member of the Maritime Transportation System National Advisory Council (MTSNAC) Security Team. He served as Chair of the Coast Guard's Sector Delaware Bay Area Maritime Security Committee for five years. He has served as a police officer in NJ and has been with the fire service since 1979 and has served as a chief officer with the Broomall Fire Company in Broomall, PA. He served as the Marine Safety Officer of the Camden City Fire Department, Camden, New Jersey. He is currently the chief instructor for the Delaware River and Bay Marine Fire Fighting Task Force. He has been involved in 9 major marine fires in his career and numerous other vessel and waterfront incidents as well as the 2001 fatal Pier 34 collapse in Philadelphia, PA.

Allen Huelsenbeck

Al Huelsenbeck retired from the Wilmington Fire Department in Wilmington, Delaware as Deputy Chief, Operations. He is a 41-year veteran of the career fire service and has served over 48 years in the fire service. He currently serves as Deputy Chief with Christiana Fire in Delaware. He is a Pro-Board Certified Marine Firefighter 2 and Marine Firefighting Instructor for Land-based Firefighters (NFPA 1005). He is a Coast Guard licensed Master of 100 Gross Ton Vessels. He has a bachelor's degree in fire service management from the University of Maryland. He is a 40-year veteran of the career fire service and has been serving as a chief since 1987 as a result of competitive testing. He serves as Deputy Chief, Operations for the DE/NJ/PA Maritime Incident Response Team as well as the Board of Directors of TMSA. He is a fire service instructor in New Jersey and Delaware. He is also a lead instructor with the Delaware River and Bay Marine Fire Fighting Task Force and with the curriculum development group that designed the marine firefighting training. He has been involved in several major marine fires including the initial incident commander of the **M/V Centaurus** in 1989, which can be seen in the American Heat video series. He is one of the leading professionals in Marine Fire Fighting in the U.S. having trained responders from the United States, Canada and Latin America. He is a routine guest speaker on marine firefighting throughout the country including a 2000 & 2001 presentation of Marine Fire Fighting Awareness, Operations & Technician hosted by the Boston Fire Department. He was an instructor in Boston's MIRT sponsored Train-the-Trainer Marine Fire Fighting program. He was a contributor to the 2001 revision of NFPA 1405, USCG Incident Management Guidebook and IFSTA's **Marine Fire Fighting for Land Based Firefighters** manual. He has presented the Marine Fire Fighting Training Program at the National Fire Academy. Al is co-author of *Rapid Intervention in the Marine Environment* that appeared in the July 2001 issue of *Fire Engineering*.



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

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.



Session’s 6 and 14 (8:30 am – 3:45 pm)

“Confidence in the Hot Zone - A Challenge for the Technician Level Responder” – Part 1 & Part 2

Instructors: Dave Wolfe, Michel A. Moore, Gregory Lynn Socks

This 6-hour course is dedicated to *technician level responder* and is designed to build confidence in the responder’s ability to survive in-suit emergencies and overcome physical and mental restrictions encountered while working within the Hot Zone. Entering the Hot Zone will always be a physical and mental challenge to say the least. However, challenges and stress can be minimized with knowledge, confidence and practical experience. This course is 50% hands-on and will require all students to complete a confidence course in Level A Protection. Challenges encountered during the confidence course will include addressing cargo tank leaks, rebuilding valves, overcoming physical restrictions and much more. This course exceeds OSHA 1910.120 requirement for annual refresher training.

Course Objectives:

Participants will:

- Understand basic chemical & physical properties of hazardous materials relating to the selection & use of chemical protective clothing.

- Understand the implications of harm to the emergency responder & protective clothing.
- Be familiar with chemical protection levels, style and classification.
- Be familiar with and perform survival techniques taught in the classroom to demonstrate individual competency.
- Actively participate in a classroom risk assessment exercise and task-oriented confidence course utilizing chemical protection clothing in a simulated hot zone.

Instructor 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 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 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 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!!

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 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."

Gregory Lynn Socks (Captain, MCFRS, ret.)

Principal Consultant, Emergency Management Solutions, Inc.

Gregory Socks career spans over 45 years of emergency response, planning, and training in the Fire and Hazardous Materials disciplines. His career as a firefighter started in 1977 with the Montgomery County, MD Fire and Rescue Services in the National Capital Region of Suburban Maryland. At the ranks of Sergeant, Lieutenant, and Captain Greg's assignments included Hazardous

Materials Training Coordinator, Station Commander, Hazardous Materials Officer, Shift Commander, and Assistant Team Coordinator for Hazardous Materials Operational Responsibilities.

In 1986, Greg was appointed as the first Team Coordinator of the Washington County, MD Hazardous Materials Response Team. He served as Team Coordinator for over 10 years while building a nationally recognized organization. Greg's certifications include Firefighter III, Fire Instructor III, Hazardous Materials Instructor, Fire Officer Development, and Hazardous Materials Team Specialist. Greg also obtained NPQ certification as an Instructor III, Hazardous Materials Awareness, Operations, Technician, and Marine Firefighter I and II. He holds an associate degree in Fire Science Technology.

Greg was a lead hazardous materials instructor at Maryland Fire and Rescue Institute and Montgomery County, MD Fire and Rescue Public Safety Training Academy. Greg has presented Hazardous Materials programs to municipal, industrial and military clients and conferences throughout the country. In 2012, Greg received the prestige International Association of Fire Chiefs (IAFC) Hazardous Materials Response Teams Conference ("Level A" Instructor Award) and 2016 Hot Zone Conference ("In the Zone" Instructor Award).

In 2019, Greg was honored by the International Association of Fire Chiefs (IAFC) as the recipient of the John M. Eversole Lifetime Achievement Award for his leadership and contributions to further and enhance the hazardous materials emergency response profession. Greg has also assisted with the development of Hazardous Materials training programs which has been used outside the State of Maryland. Greg has served on numerous State of Maryland committees and focus groups for new technology. Greg has received numerous certificates, unit citations, and recognition letters from MCFRS, ATF, FBI, US Army, and Department of Defense. Greg is one of the five partners/principal consultants with PENTA Consortium, LLC which is a newly formed global preparedness and crisis management firm that addresses client needs for NIMS ICS, IMT Response, Gap Analysis Studies, Hazardous Materials, Maritime, Emergency Management Planning, Training, and Exercises.



Session 7 (8:30 am - 11:45 am)

"Natural Gas and Propane – Properties, Operation and Emergency Response"

Instructors: Ric Chatham, Bill Hermstedt

This course will discuss the properties, handling and emergency response procedures necessary to safely handle and work with natural gas and propane

Instructor Bios:

Ric Chatham

Ric Chatham is the Sole Proprietor of Gas Chat Consultants, LLC. Ric educates employees of the Propane industry for the Mid-Atlantic Propane Gas Association (MAPGA). Because the State of Maryland requires a Propane Gas Fitter's Certificate, his training is a prerequisite (National Propane Gas Association (NPGA) Certified Employee Training Program - CETP). Ric is a NPGA CETP Certification Proctor & Skills Evaluator, has a Maryland Propane Gas Fitter's Certificate and is a safety coordinator for the MAPGA consulting on propane regulations and requirements. He has served as a contractor for the Delaware Department of Natural Resources & Environmental Control (DNREC) inspecting propane bulk plants from 2014 through 2017. In his 50-plus years in the propane industry, Ric has designed bulk propane plants, succeeded as a propane safety director, worked as a National Propane Gas Association safety committee member to implement the National Fire Protection Association's LP Gas Code #58, and has served as Chair of numerous propane industry safety committees. Ric is a graduate of Catawba College, Salisbury, North Carolina with a B.A. in Psychology (major) and Business (minor), and is a U.S. Navy veteran.

Bill Hermstedt

Bill has worked in the natural gas industry for 23 years and has held many positions in natural gas operations. He is currently the Manager of Transmission Pipeline Safety for Eastern Shore Natural Gas. He has presented at numerous natural gas safety meetings discussing properties of natural gas, natural gas operations and emergency response to natural gas events. Prior to joining the gas industry, Bill served in the U.S. Navy and worked for PSEG at Hope Creek Nuclear Generating Station. Bill is a graduate of Thomas Edison State University in New Jersey with a Bachelor's degree in Business Administration.



Session 8 (8:30 am – 11:45 am)

“Commercial/Improvised Explosives Awareness”

Instructor: Sergeant Christopher Ennis

This course will provide real-world examples of precursor activities and commercial materials available locally that can be used to manufacture energetic materials for use in improvised explosive devices. After the classroom briefing, students will observe a live explosive demonstration of Homemade Explosives, Military Explosives, and Improvised Explosive Devices. This “Can’t Miss” opportunity is always a crowd pleaser!

Instructor Bio:

Sergeant Christopher Ennis, Delaware State Police EOD Team Commander

Sergeant Chris Ennis has been a member of the Delaware State Police for thirty years and a member of the DSP-Explosive Ordnance Disposal Team for twenty-seven years. Sergeant Ennis has been the Delaware State Police EOD Team Commander since June 2003, and is currently the Delaware Chapter Director of the International Association of Bomb Technicians and Investigators and a board member of the National Bomb Squad Commanders Advisory Board. He has been recognized by the FBI and the National Bomb Squad Commanders Advisory Board as a subject matter expert for Bomb Squad Operations and helped write the National Response Plan for Bomb Squad Responses to Large Vehicle Bombs and Person Borne IED's and the manufacturing standard for all future bomb suits to be worn by all U.S. Bomb Technicians.



Session 10 (12:30 pm – 3:45 pm)

HazMat Dangers During Vehicle Rescue

Instructor: Dave Truax

This class will review the possible hazmat dangers found while doing actual vehicle rescue evolutions.

Instructor Bio:

Dave Truax, Instructor for the Delaware State Fire School for the past 20 years, specializing in all areas of Vehicle Rescue.



Session 13 (12:30 pm – 3:45 pm)

DAM.... there is NO APP FOR THAT

Instructor: Frank Docimo, CEO Docimo and Associates, LLC

Thanks to smartphones and the apps made for them, emergency responders and the public they serve now have a wealth of help at their fingertips for almost any disaster scenario. They can look up the effects of toxic chemicals, brush up on first aid, find the nearest shelters or turn their phone into a flashlight. Apps filled with reference material and up-to-the-minute data can help them respond to an emergency. Thus, it is critically important for several reasons to not become overly dependent on apps and smartphones.

The goal is to get the right information in the right hands at the right time, and order to make decisions in minutes not hours. For this reason, you need to be able to think “out of the box and on your feet” and not to become overly dependent on apps and smartphones. This session will utilize science, monitoring devices, HAZMAPS, and street smarts with Frank’s ability to “Connect the Dots” during a chemical emergency.

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 15A (12:30 pm – 2:00 pm)

Chemical Suicide

Instructor: Chief Jamie Bethard

Chemical suicides as we know them came to prominence in Japan in 2007 and have unfortunately migrated to the United States. The numbers of chemical suicides within the U.S. is believed to be drastically under-reported and may even be controversial by definition. Within calendar year 2015 Delaware had at least three chemical suicides with another one in 2019 near Hartly. This course will discuss the current trends and discuss how Delaware responds or should respond to these unfortunate events. This program will be using training material acquired from Jacob Oreshan, a national recognized subject matter speaker on this topic along with local incident input.

Instructor Bio: Jamie Bethard

Chief Jamie Bethard is the State Emergency Prevention & Response Chief of DNREC's Emergency Response. Jamie is a third generation Delaware firefighter and life member of the Magnolia Vol. Fire Co. Jamie has worked for the State of Delaware as an Industrial Hygienist, Environmental Health Specialist III (coordinator of Public Health's ER) and for the last 30 years with DNREC's Emergency Response Branch as an Environmental Scientist/On-Scene Coordinator. Jamie is currently the Chief of the ER and the afterhours Emergency Response Team. Jamie has a Bachelor's degree in Fire & Safety Engineering and a Masters in Safety Engineering.



Session 15B (2:15 pm – 3:45 pm)

Air Monitoring for Fire Fighters

Instructor: Matthew Higgins

This session focuses on the use of 4, 5, and 6-gas air monitoring meters during hazardous materials incidents. Basic instrument operation and chemicals of concern will be discussed during this presentation, including the use of Photo-Ionization Detectors. In addition, instrument "Care & Feeding" and the use of sensor specific correction factors will also be covered during this session.

Instructor Bio: Matthew Higgins

Matthew Higgins is a State Emergency Senior On-Scene Coordinator with the State of Delaware's Department of Natural Resources & Environmental Control's (DNREC) Division of Waste & Hazardous Substance's Emergency Response & Support Section. Mr. Higgins is a Hazardous Materials Response Technician with the DNREC - Emergency Response Team (ERT), which responds to hazardous material incidents in the State of Delaware. Mr. Higgins is a Certified Hazardous Materials Manager and holds a Bachelor's of Science Degree in

Environmental Sciences from Wesley College. Mr. Higgins has responded to numerous hazardous material incidents that involved air monitoring, and is a Certified RAE Systems Instrument Technician.



Session 16 (12:30 pm – 3:45 pm)

Chemical Warfare Agents (CWA) and Agents of Chemical Terrorism

Instructors: CPT Dan Collins, 31st CST and SSG Russell Fiske, 31st CST

This course will provide an overview of traditional military-grade chemical warfare agents such as Blister Agents, Nerve Agents, Blood Agents, Pulmonary Agents, Incapacitating Agents, etc. Students will be shown simulated laboratory processes to enhance visual recognition of the most-likely synthesis routes for clandestine preparation of chemical agents. Instructors will place special emphasis on the clandestine synthesis and terrorist employment of chemical agents. Students will learn and discuss the following topics:

- History of chemical weapons
- Medical effects of chemical agents
- Basic medical countermeasures for exposure to CWA
- Physical properties of chemical agents
- Detection of chemical agents
- Effective CWA decontamination techniques
- Visual recognition of CWA synthesis routes
- Identification of CWA precursor & intermediary chemicals

Instructor Bios:

CPT Dan Collins

CPT Collins is the Nuclear Medical Science Officer on the 31st WMD-Civil Support Team, an all-hazards response team in the Delaware National Guard. CPT Collins oversees the 31st CST's mobile laboratory, which specializes in the rapid classification and identification of CBRN and WMD materials through modern detection technologies such as GC/MS and FTIR chemical analysis, polymerase chain reaction DNA screening, electrochemiluminescence bio toxin identification, polarized light microscopy and fluorescence microscopy. Prior to his current position, CPT Collins has held previous assignments as the 31st CST Medical Operations Officer and as an Intelligence Officer with the 386th Air Expeditionary Wing and 166th Airlift Wing. CPT Collins received his undergraduate degree from Grove City College, his masters' degree from American Military University, and is a graduate of the Delaware Leadership Academy.

SSG Russell Fiske

SSG Russell Fiske is a CBRN Specialist in the Delaware Army National Guard, where he has served for more than 20 years. He has deployed in support of both Operation Iraqi Freedom and Operation Enduring Freedom. During his second deployment he served as the Crew Master Gunner for the 1049th Transportation Company where he managed counter-IED systems and instructed soldiers on how to identify and defeat IED's. He was the Delaware Army National Guard NCO of the Year in 2012 and worked in the Delaware Army National Guard Environmental Office for seven years as the Natural and Cultural Resource manager. He is currently a Team Chief in the 31st CST Survey Section where he performs and oversees entries into CBRN environments.

