



State of Delaware

10th Annual Hazardous Materials Training Workshop



◆◆◆◆◆
Workshop Training Sessions

Course Descriptions and Instructor Information

Saturday, April 8, 2017

7:00 am-8:30 am: Registration-Continental Breakfast-Exhibitor Booths

8:30 am-4:15 pm - Training Sessions

Delaware State Fire School

1461 Chestnut Grove, Dover, DE 19904

See Separate Course Descriptions for Specialized Pre-Workshop Classes to be held Friday, April 7, 2017
"Educating Responders for Today and Tomorrow"

Session #1 (8:30am – 11:45am)

"Emerging Threats & Things That Go Boom!"

Instructors: DSP Sergeant Chris Ennis, DSP Detective Tim Kerstetter

This session will cover the emerging threats of Homegrown Violent Extremists and the impact the Islamic State has across the world, including within the American Homeland. Attendees will be briefed on the tactics, techniques and procedures of our adversaries, to include examples of mass violence by way of Active Shooter Events and Improvised Explosive Devices. This briefing will provide real-world examples of precursor activities and materials available at local stores that can be used to manufacture energetic materials. 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: Sgt. Chris Ennis, Delaware State Police EOD Team Commander

Sgt. Ennis has been a member of the Delaware State Police for twenty-eight years and a member of the DSP-Explosive Ordnance Disposal Team for 25 years. Sgt. 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.

Instructor Bio: Det. Tim Kerstetter, Delaware State Police Terrorism Liaison Officer

Det. Kerstetter is a 22-year veteran of the Delaware State Police. He was Delaware's first detective assigned to the FBI's Joint Terrorism Task Force after 9/11. He served in the JTTF for nearly nine years. Additionally, Det. Kerstetter served on the Explosive Ordnance Disposal Team for nearly seven years. He currently serves in the Homeland Security Unit as the agency's Terrorism Liaison Officer. His current mission is to analyze terror plots and Homeland Security threats against the U.S. that could have implications within the State of Delaware and provide training to First Responders and private sector partners to mitigate Delaware's risk levels while increasing situational awareness and readiness plans for all citizens.



Session #2 (8:30am – 11:45am)

TRANSCAER® Presents – "Ethanol Safety Seminar" -Part 1

Instructor: Battalion Chief (Ret.) Joel Hendelman

The goal of this session is for attendees to gain a complete ethanol emergency response training experience that they can put to use immediately in the field and pass along to other first response teams. This session will cover an introduction to ethanol and ethanol-blended fuels, chemical and physical characteristics of ethanol and hydrocarbon fuels, transportation and transfer, storage and dispensing locations, firefighting foam principles, general health and safety and storage and pre-planning considerations.

Instructor Bio: Battalion Chief (Ret.) Joel Hendelman - During his 31 year career with the City of Fairfax VA Fire Department Mr. Hendelman served as a firefighter/driver-operator, Fire Inspector/Investigator, Deputy Fire Marshal, Chief Fire Marshal, Sergeant, Lieutenant, Captain and ultimately attained the rank of Battalion Chief in 2003 until retirement in 2009. He is also recognized as a regional expert in flammable and combustible liquid firefighting operations, teaching hazardous materials tactical and incident

management process and principles at national conferences and US mid-Atlantic region from 2003 – present. He was a significant contributor as a subject matter expert to the NOVA (Northern Virginia) Regional Fire Departments Flammable Liquid Firefighting Tactical Operations Manual originally released in 2002 and still in use today by 11+ jurisdictions within the region.

Session #3 (8:30am – 11:45am)

“Training for a CBRNE Response: a Safe Perspective”

Instructor: CARRIE A. POORE, Ph.D., Branch Chief Advanced CBRNE Training Branch

This course will begin with a discussion on training CBRNE Responders and examples of programs of instruction designed specifically to address the mission requirements of a particular group of people. Several broad categories fall under the material trained in these classes to include mission planning, site survey, protection, detection, sampling, decontamination, etc. These areas will be addressed to include lessons learned during the training process and implementation of methods and concepts taught. Further discussion will highlight how individual units benefit from these trainings as well as the ability for multiple units to operate more effectively with one another. Most importantly, the importance of safety in all of the above activities will be addressed throughout the lecture.

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 Edgewood Chemical Biological Center. She has over 14 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 #4 (8:30am – 11:45am)

“Rapid Risk Assessment Techniques”

Instructor: Frank Docimo, CEO Docimo Associates, LLC, Shippensburg, PA

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 firefighter. But he has to know how the enemy will behave in order to effectively deal with a hazardous material. Responders cannot begin to deal with a hazardous materials incident 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. The behavior of a chemical and the sequential events of a hazardous materials incident are crucial to dealing with the incident in a safe and effective manner. Mr. Docimo is the CEO Docimo Associates, LLC, Shippensburg, PA

Instructor Bio: Frank Docimo: Frank Docimo has been affiliated with the fire service for over 40 years and formerly served as the Hazardous Materials Coordinator for State of Wisconsin Emergency Management. Frank previously had been with Haz-Mat One in the City of Stanford. He has lectured at many national programs including the Fire Department Instructors Conference, International Association of Hazardous Materials Instructors, Hazardous Materials Team Conference, and the FEMA Region Five Conference. His client list includes the US Army, the US Air Force, the CIA, Several CST teams, The US Capitol Haz-Mat Response Team and The National Security Agency. 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”. In 2001, Frank received the “In the Zone Award” from the Houston Haz-Mat Conference. In the fall of 1998, Mr. Docimo was selected as a subject matter expert (SME) to participate in a needs assessment and formulation of curriculum for the nation’s responders to terrorist activities. This project was a joint project of the National Fire Academy, FEMA and the Bureau of Justice. Current

projects include response assessment programs for several DC based agencies. Mr. Docimo is the CEO Docimo Associates, LLC, Shippensburg, PA.,



Session #5 (8:30am – 11:45am)

“CBRN For Beginners” – Part 1, History & Fundamentals

Instructor: Miranda Mal, Emergency Manager

This session will teach introductory level “open-source” Chemical, Biological, Radiological/Nuclear and Explosives information. It will discuss a brief history of CBRN agents as well as their precursors. There will be discussion regarding hazard behavior and the best methods to rapidly identify and protect emergency responders without endangering lives or destroying resources. The objective is to remove some of the mystery regarding CBRN agents to better equip emergency responders at all levels. **Attendees are encouraged to bring smartphones/tablets to facilitate future research.**

Instructor Bio: Miranda Mal: Miranda Mal has been an emergency manager in the US Air Force for fifteen years. In that capacity, she has served as a Chemical, Biological, Radiological/Nuclear (CBRN) emergency response team leader and exercise planner/evaluator. She has served as an instructor for Hazardous Materials Awareness and CBRN defense survival skills over ten years. Mrs. Mal specializes in contingency planning and served as lead emergency manager for Dover Air Force Base. She has previously served on the DE Family Emergency Preparedness Day and Kent County Local Emergency Planning Committees.



Session #6 (8:30am-11:45am)

“Plug and Play” Training for the Hazmat Technician – Part 1

Instructors: Bruce Galloway, Darryl Meade

This training will enable the students to act as trainers and by using various training programs (that will be supplied), “plug and play” them into their own curriculum to enhance the student experience during training evolutions.

Instructor Bio: Bruce Galloway: Mr. Galloway worked for DuPont for 42 years, and for the last 29 of those years served as the DuPont Experimental Station Fire Chief. In addition, Bruce is a certified HazMat Technician, a Delaware State Fire School Instructor, Past Deputy Chief at Wilmington Manor Fire Company, and a Member of the New Castle County Industrial Hazardous Materials Response Alliance.

Instructor Bio: Darryl Meade:

Over 36 years in the Fire Service. Currently serves as Assistant Chief for the Dupont Company in 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 17 years, teaching mainly HAZMAT skills.

Member of New Castle County Industrial Hazardous Materials Response Alliance and serve on training committee. Serves as trainer and is part of New Castle County HAZMAT Decon Units.

Serves Nottingham and Oxford townships as Radiological HAZMAT Officer.

Was part of Chester County, PA. HAZMAT response team.



Session #8 (1:00pm – 4:15pm)

“Emerging Threats & Things That Go Boom!”

Instructors: DSP Sergeant Chris Ennis, DSP Detective Tim Kerstetter

See Session #1 above for the course description and instructor bio.



Session #9 (1:00pm – 4:15pm)

TRANSCAER® Presents – “Ethanol Safety Seminar” -Part 2

See Session #2 above for the course description and instructor bio.



Session #10 (1:00pm – 4:15pm)

“Bio Threat Brief”

Instructor: CARRIE A. POORE, Ph.D., Branch Chief Advanced CBRNE Training Branch

This course will discuss biological agents, characteristics of the different types of bio agents, and the small scale production of such. Generalized medical effects will be addressed for the main types of bio agents. Basic theory regarding the motivation of using a biological agent will be covered. A discussion on challenges that exist in the development of detection platforms will show what we currently use now and where we are going as technology constantly improves.

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 Edgewood Chemical Biological Center. She has over 14 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 #11 (1:00pm – 4:15pm)

“If You Cannot Measure It, You Cannot Manage It!”

Instructor: Frank Docimo, CEO Docimo Associates, LLC, Shippensburg, PA

When responding to a chemical event, it’s critical that the material be identified as soon as possible. The thought process should involve protecting oneself and detecting the product or agent of harm. Most responders under-utilize their detectors in standard hazmat response and seem to get away with it. But in a true chemical event, the importance of monitoring is critical in making key decisions, such as identifying a hoax, establishing zones, making evacuation decisions, mandating PPE and determining decontamination needs. This is a hands-on program using tabletop scenarios and multiple interactive detection devices that will provide the first responder the skills that they will need when faced with a hazardous material incident.

See Session #4 above for the instructor bio.



Session #12 (1:00pm – 4:15pm)

“CBRN For Beginners”– Part 2, Case Studies and Research

Instructor: Miranda Mal, Emergency Manager

This session will expand on introductory “open-source” Chemical, Biological, Radiological/Nuclear and Explosives information. Part 1 is recommended but not required. It will examine case applicable case studies of agent exposure and emergency response. There

will be opportunity for cross-talk regarding hazardous materials research methods and response procedures. The objective is to rapidly identify and respond, as well as know what *not to do* on a suspected CBRN response. **Attendees are encouraged to bring smartphones/tablets as well as copies of the DOT Emergency Response Guidebook to facilitate future research.**

Instructor Bio: Miranda Mal: Miranda Mal has been an emergency manager in the US Air Force for fifteen years. In that capacity, she has served as a Chemical, Biological, Radiological/Nuclear (CBRN) emergency response team leader and exercise planner/evaluator. She has served as an instructor for Hazardous Materials Awareness and CBRN defense survival skills over ten years. Mrs. Mal specializes in contingency planning and served as lead emergency manager for Dover Air Force Base. She has previously served on the DE Family Emergency Preparedness Day and Kent County Local Emergency Planning Committees.



Session #13 (1:00pm – 4:15pm)
“Plug and Play” Training for the Hazmat Technician – Part 2

See Session #6 above for the course description and instructor bios.



State of Delaware – 10th Annual Hazardous Materials Training Workshop

Hosted by

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



“Educating Responders for Today and Tomorrow”

For Questions Regarding this Workshop Contact:

For Questions Regarding this Workshop, Contact Jerry Brennan:

Phone: (302) 739-4773 or via email at jerry.brennan@state.de.us

Workshop Partners include:

