

15th Annual 2024 Regional Hazmat Conference

Cold Zone



May 8th - 10th 2024

Minneapolis Marriott Northwest



The 15th Annual 2024 Cold Zone Conference will offer a variety of Hazardous Material courses for first responders of all skill levels. This conference will provide the most recent information available, hands-on workshops and a variety of topics relating to many aspects of today's hazards. Cold Zone will also provide an opportunity to meet other responders from around the region and neighboring states.

Who should attend: Police/Fire/EMS personnel/ First responders and industry leaders who have the desire to work together towards a common goal of protecting our communities from hazardous material incidents through learning and networking.

Sponsored By:



In Conjunction with: Minnesota Regional Chemical Assessment & Emergency Response Teams

Registration

Registration can be done on-line at www.coldzone.org. Payment types accepted are credit card or check. Individuals wishing to pay by check are to make the check payable to CEF Safety Services and mail to Cold Zone Conference 13137 Crooked Lake Blvd NW Coon Rapids, MN 55448.

The registration fee is \$650.00 and includes all breaks, continental breakfast and lunch buffet on Wednesday, Thursday, and Friday. Registrants are responsible for making their own room reservations.

Refund Policy: **Cancellation will result in a refund of the registration fee minus a \$100.00 administrative fee.**

Hotel Reservations

The 15th Annual Cold Zone conference will be at the **Minneapolis Marriott Northwest in Brooklyn Park, MN**. Registrants are responsible for making their own hotel reservations. Reservations can be made online at www.marriott.com to reserve your room. Please use the group code "Cold Zone" or ask for the Cold Zone room block. You will need to hold your room with a credit card and for any incidental charges that you may incur.

Room rate is \$159 per night, plus tax.

Hotel reservations must be made no later than April 22nd, 2024. We strongly encourage you to reserve a room as soon as possible as the Cold Zone block of rooms may sell out this year.

Minneapolis Marriott Northwest
7025 Northland Dr N
Brooklyn Park, MN 55428
Phone: (763) 536-8300

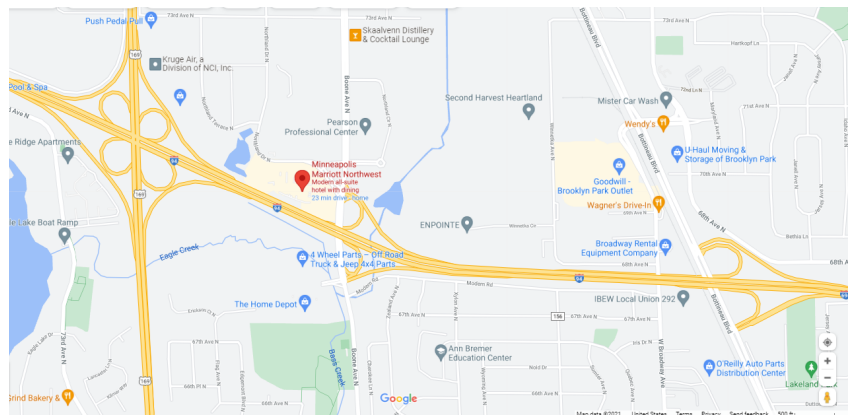
Transportation to and from Hotel

Minneapolis/St. Paul International (MSP)

- Distance: 28.9 MI
- Drive Time ~ 30 minutes

Minneapolis–Saint Paul International Airport

(MSP), follow signs for State Hwy 5 W/I-494/Bloomington and merge onto MN-5 W/State Hwy 5 W. Merge onto I-494 W/ MN-5 W/State Hwy 5 W. Take exit 10 A to merge onto US-169 N. Take the exit onto I-694 E/I-94 E. Take exit 30 for Boone Ave. Keep right at the fork and merge onto Boone Ave N. Turn left onto Northland Dr N. Turn left at the 1st cross street to stay on Northland Dr N. Turn right Destination will be on the left.





Welcome to the 15th Annual Cold Zone Conference 2024

Tuesday - May 7th

4:00 - 8:00 pm
Early registration

Wednesday - May 8th

7:00 - 8:00 am
Registration & Continental Breakfast

8:00 - 9:45 am
Day long classes begin

9:45 - 10:00 am
Morning Break

10:00 - 11:45 am
Classes continue

11:45 - 1:00 pm
Lunch Provided.

1:00 - 2:45 pm



Classes continue

2:45 - 3:00 pm
Afternoon Break

3:00 - 4:45 pm
Classes continue

4:45 pm
Classes concluded - Dinner on your own.

Thursday - May 9th

7:00 - 8:00 am
Continental Breakfast - Vendor's show opens.

8:00 - 9:45 am
General Session #1

9:45 - 10:00 am
Morning Break

10:00 - 11:45 am
General Session #2

11:45 - 1:00 pm
Lunch Provided



1:00 - 2:45 pm
Workshops 1

2:45 - 3:00 pm
Afternoon Break

3:00 - 4:45 pm
Workshops 2

5:00 - 7:00 pm
Exhibitor Social Hour - Food and Beverages Provided.

Friday - May 10th

7:00 - 8:00 am
Continental Breakfast

8:00 - 9:45 am
Workshops 3

9:45 - 10:00 am



Morning Break

10:00 - 11:45 am
Workshops 4

**Conference Concludes,
see you next year at the
2025 Cold Zone**



Full Day Classes - 8:00 am Wednesday

Block A - Building the plane as we fly it - Li-Ion Batteries in practice (The Hazmat Guys)

The news has exploded with news of battery incidents lately. No place on Earth has been experiencing more than New York City. Take a journey with the guys who are on the ground handling the incidents, how the process has evolved, what we are currently doing, and where this is going. Plenty of time will be allowed for discussion.

Objective:

This course will go in-depth into the following topics related to hazmat scenes:

Theory and practical application of energy storage systems

Practical application of insults and their outcomes

Real-world guidelines and anecdotal as well as white-paper findings on this topic

is present. The group will report their scenario to the class.

Block B - Anarchist/Clandestine Laboratories (Murdock)

This class will describe the following laboratories, chemicals and equipment used for the preparation of peroxide based explosives, ammonium nitrate based explosives, toxic chemicals (hydrogen sulfide, ammonia, chlorine, phosphine, etc.), toxic chemicals (nicotine, pesticides and herbicides), ricin and other biotoxins, and potent drug compounds (methamphetamine, fentanyl, dimethyltryptamine). Air monitoring, test papers, FTIR and RAMAN spectroscopies and GC/MS will be discussed in terms of strategy and tactics for identifying hazardous materials used for each laboratory. The class will be divided into groups and each group will be assigned to characterize and/or identify the chemicals on a table and determine what type of laboratory



General Session #1 - 8:00 am Thursday

General Session #2 - 10:00 am Thursday

Emerging Threats
Baxter

Workshop #1 - 1:00 pm Thursday

1A - First Due Monitoring and Detection (Baxter)

This course will prepare hazmat technicians and special operations personnel to employ a full suite of hazmat/CBRN detection devices and air monitoring instruments in an integrated manner. This course will focus on results interpretation and decision making using multiple technologies to help make command decisions.

1B - Chemical and Physical Properties (The HazMat Guys) Part 1 of 2

We take a very different look at the basis for all of our operations. Chemical and physical properties. Seemingly basic and fundamental, we go beyond where the instructors stop and explain how and why they matter. We will take a look at them from multiple different perspectives and see how they all correlate with tactical advantages.

1C - Back to the Basics – Grounding and Bonding (Rudner)

The program will follow the recommendations as set by the NFPA 470 standard and discuss the misunderstanding of what ground resistance is and why we do it first. Then, by demonstration, the instructor will show how we set up a grounding field for the damaged container, grounding field for the recovery container and appliances, and how to bond them together. This is an interactive program that will ask the student to discuss the subject. You can bring our ground density meter with you and make sure you know how it works

1E - Massachusetts Joint Hazards Incident Response Team (Rebello)

This presentation will cover the basics of a Joint Hazards Assessment Team, including introductions to hazard and risk assessment, team composition, interagency collaboration, mitigation strategies and real-world examples and case studies from the Massachusetts Joint Hazards Incident Response Team and their collaboration with agencies across the Commonwealth. We will cover case studies from narcotic and explosive laboratories, and event and venue protection, including the Boston Marathon post 2013 bombings.

1F - PEAC Software Tutorial - Tech Ref, Modeling, Situational Awareness & ICS-NIMS (Scott Bunning)

PEAC software is the leading Hazmat technical reference and modeling software for emergency planners and first responders in the world. The class will cover a variety of Hazmat incidents/topics and use PEAC's extensive and intuitive feature set to help address these situations. This course will illustrate how PEAC can provide technical reference and situational analysis as well as modeling and incident reporting. The instructor will review how to expedite the completion of NIMS ICS forms through automation and how to leverage integrated technologies such as Google Earth. Included is an in-depth look at some of the PEAC computation tools (i.e. Explosion Calculator, Fireball Calculator, PAD (Plume) Calculator). Upon completion students will know how to access, use, and distribute the data included in PEAC, and how to apply the calculation and situational analysis tools to their emergency planning and response operations. The course will include scenarios based on real incidents, and will include a review of PEAC's extensive self-training resources to reinforce this class long after the show



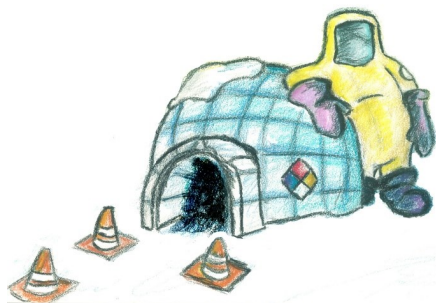
Workshop #2 - 3:00 pm Thursday

2A - Emergency Response Decision Support System (ERDSS) Updates (Baxter)

This course will prepare personnel to efficiently utilize the Emergency Response Decision Support System (ERDSS) in hazardous materials, explosives, and fire incidents. The Emergency Response Decision Support System (ERDSS), designed in partnership with the Hazard3 team, is a free computer program designed for emergency response and military personnel. This course includes modules on setting-up ERDSS; theory behind ERDSS look-up tables, calculators, and decision support tools; using ERDSS in planning, training, and operations; and scenario-based exercises.

2B - Chemical and Physical Properties (The HazMat Guys) Part 2 of 2

We take a very different look at the



basis for all of our operations. Chemical and physical properties. Seemingly basic and fundamental, we go beyond where the instructors stop and explain how and why they matter. We will take a look at them from multiple different perspectives and see how they all correlate with tactical advantages.

2C - Railroad 101 – Understanding Railroad Operations and Safety (Rudner)

This workshop will give the responders from Awareness to Technician the ability to work with the railroad within the railroad right-of-way safely and to be given an understanding of railroad operations. Additional content includes all types of Railcar Construction and features

2D - Oxidizers and Pool Chemicals (Tom Murdock)

Oxidizers are highly energetic chemicals that react violently with many oth-

er materials and may be involved in fires that are extremely difficult to extinguish. Swimming pool and spa chemicals are a class of inorganic oxidizers (DOT Hazard Class 5.1) that are commonly used in private, municipal, hotel and school pools and water treatment facilities. Swimming pool chemistry is discussed in terms of recognizing what chemicals and equipment you may expect to see and what has gone wrong when your hazardous materials response team has been summoned to an evacuation at a local pool. Several videos have been prepared that show violent reactions when incompatible materials are mixed with common pool chemicals. Organic peroxides, including hydrogen peroxide, (DOT Hazard Class 5.2) are widely used in pulp and paper manufacture, sanitizing surfaces in food processing plants, a variety of polymerization processes and synthetic organic reactions. Physical and chemical properties (The HazMat Dirty Dozen) and reactivity of organic peroxides are discussed and observed with video demonstrations. Students will learn to assess chemical hazards and risks using the APIE risk assessment model (Analyze, Plan, Implement and Evaluate) and develop the appropriate tactical response to those hazards during spills and fires involving inorganic and organic oxidizers in compliance with the advanced chemical risk assessment and analysis competency outlined in Chapter 38 of NFPA 470 (2022). This knowledge will allow students to provide their IC with recommendations for PPE, Zones and Perimeters Delineation, Monitoring, Decontamination, Respiratory Protection, Site Safety Plan, Evacuation vs Shelter-in-Place, etc.

2E - Massachusetts Joint Hazards Incident Response Team (Rebello)

This presentation will cover the basics of a Joint Hazards Assessment Team, including introductions to hazard and risk assessment, team composition, interagency collaboration, mitigation strategies and real-world examples and case studies from the Massachusetts Joint Hazards Incident Response Team and their collaboration with agencies across the Commonwealth. We will cover case studies from narcotic and explosive laboratories, and

event and venue protection, including the Boston Marathon post 2013 bombings.

2F - Emergency Response to Plating Operations (Murdock)

Electroplating and electroless plating operations use a variety of chemicals, including oxidizers, toxic metal solutions, flammable solvents for degreasing, strong bases, and strong acids. Particularly hazardous chemicals are cyanide baths for electroplating gold and nitric acid/ammonium bifluoride solutions for cleaning aluminum surfaces. This course will review the chemicals involved in industrial accidents at plating companies and the various chemical processes that use corrosive and toxic chemicals for plating operations. The difference between electroplating and electroless will be explained and will be reinforced with classroom demonstrations. A risk-based response using the APIE model will be discussed to analyze the chemical hazards and develop a plan to respond to chemical spills and exposures at plating companies.

Thermo
SCIENTIFIC

Workshop #3 - 8:00 am Friday

3A - Rapid Fire HazMat (Rykes)

This 90 mins course is intended to brush the dust off even the most seasoned of HazMat responders. Ever felt embarrassed to ask a question you probably should know, but have long since forgotten? This class is meant to be the opportunity to rapidly relearn the basics you probably should know, and sharpen the understanding you have of some of the most important concepts of HazMat response. From hazard classes to transport vessel identification and monitoring fundamentals, this is your chance to feel sharp again and ready to tackle the world of HazMat.

3B - Modular Metering (The HazMat Guys)

Metering can be confusing, but we have a knack for detangling the mess. We will explain it simply and have members leave with a full understanding of how and why metering is done. In this conference length presentation on metering, we will review the metering technologies of electrochemical, catalytic bead, photoionization detection. Come check out the short version of our full day course.

3C - Back to the Basics – Grounding and Bonding (Rudner)

The program will follow the recommendations as set by the NFPA 470 standard and discuss the misunderstanding of what ground resistance is and why we do it first. Then, by demonstration, the instructor will show how we set up a grounding field for the damaged container, grounding field for the recovery container and appliances, and how to bond them together. This is an interactive program that will ask the student to discuss the subject. You can bring our ground density meter with you and make sure you know how it works

3E - Alphabet soup is good for you (Murdock) Part 1 of 2

This class reviews the use of FTIR and RAMAN spectroscopies, GC/MS and the LCD 3.3 instrument at a variety of hazardous materials incidents. The operation and limitation of the various instruments will be reviewed. The class will have an opportunity to use the instruments to identify chemicals

and mixtures of chemicals used in a variety of scenarios.

3F - Chlorine 101 (Quinn)

This class will give you the responder the information needed to understand Chlorine but safely respond to a Chlorine Emergency.



CPKC

Workshop #4 - 10:00 am Friday

4A - TBD

4B - Building the plane as we fly it - Li-Ion Batteries in practice (The Hazmat Guys)

The news has exploded with news of battery incidents lately. No place on Earth has been experiencing more than New York City. Take a journey with the guys who are on the ground handling the incidents, how the process has evolved, what we are currently doing, and where this is going. Plenty of time will be allowed for discussion.

This course will go in-depth into the following topics related to hazmat scenes:

- Theory and practical application of energy storage systems
- Practical application of insults and their outcomes
- Real-world guidelines and anecdotal as well as white-paper findings on this topic

4C - Scenario Based Training – Running out of Ideas? (Rudner)

Scenario based training has become the most common way of training response teams to work together. However, the challenges that are always present include: the same ideas, little variation, lack of realism, and not setting attainable goals. Through a series of questions and discussions the presenters will guide you through the obstacles described and help you to develop more effective whole skill exercises and drills to improve your team and the others that respond with you.

4C - You're the "First on the Scene to a Propane Incident and have nothing to work with, or do you?" (Huffman)

As a firefighter you have the potential to be dispatched to something new or a call you don't have specialized equipment for. What happens when you're the first department on scene to at a propane incident and have nothing to work with. This program will discuss tactical options for just such an incident. You have more than you think would be my guess. We will look at evacuations, vapor management, management of heat sources allowing a tank to cool or manage how much it warms up. We'll discuss the why, where, and how to correctly apply water. We will discuss freeze patching

and the challenges of making it work well. We'll look at past incidents and to see what happened and what we can learn from them and much more in the classroom. Then we'll take a tour around several different size small cylinders including a side mount motor fuel tank, a MC-331 Bobtail and Transport prop and Underground tank system all while discussing tactical options for all of it. One of your best tools is sitting on your shoulders, let's put some more fuel for thought in it.

- Students will be provided information on propane incident management with limited response equipment
- Students will be provided the opportunity to work with several sizes of tanks and cylinders
- Students will be provided the opportunity to create gas (or compressed air) flows that will activate system excess flow valves.

4D - You're the "First on the scene at a Propane Incident" and have nothing to work with, or do you? (Huffman)

As a firefighter you have the potential to be dispatched to something new or a call you don't have specialized equipment for. What happens when you're the first department on scene to a propane incident and have nothing to work with. During this program we'll discuss tactical options for just such an incident. You have more than you think would be my guess. We will look at evacuations, vapor management, management of heat sources allowing a tank to cool or manage how much it warms up. We'll discuss the why, where, and how to correctly apply water. We will discuss freeze patching and the challenges of making it work well. We'll look at past incidents and to see what happened and what we can learn from them and much more in the classroom. Then we'll take a tour around several different size small cylinders including a side mount motor fuel tank, a MC-331 Bobtail and Transport prop and Underground tank system all while discussing tactical options for all of it. One of your best tools is sitting on your shoulders, let's put some more fuel for thought in it.

Includes Outside demonstrations

4 E - Alphabet soup is good for you (Murdock) Part 1 of 2

This class reviews the use of FTIR and RAMAN spectroscopies, GC/MS and the LCD 3.3 instrument at a variety of hazardous materials incidents. The operation and limitation of the various instruments will be reviewed. The class will have an opportunity to use the instruments to identify chemicals and mixtures of chemicals used in a variety of scenarios.

4F - Case Study (BNSF)

Class description coming soon

11:45 am

[Conference Concludes](#)

[Have a safe trip home.](#)



National Institute of
Environmental Health Sciences

OAI OPPORTUNITY
ADVANCEMENT
INNOVATION
in WORKFORCE DEVELOPMENT

2024 COLDZONE HAZMAT CONFERENCE

Wednesday May 8th

7:00 – 8:00 am		Continental Breakfast				
Workshop Number		Block A		Block B		
Full Day Courses	8:00 – 9:45 am	Building the plane as we fly it - Li-Ion Batteries in practice The HazMat Guys Part 1 of 4		Anarchist/Clandestine Laboratories Murdock Part 1 of 4		
	9:45 – 10:00 am		Morning Break			
	10:00 – 11:45 am	Building the plane as we fly it - Li-Ion Batteries in practice The HazMat Guys Part 2 of 4		Anarchist/Clandestine Laboratories Murdock Part 2 of 4		
	11:45 – 1:00 pm		Lunch Break – Lunch Provided			
	1:00 – 2:45 pm	Building the plane as we fly it - Li-Ion Batteries in practice The HazMat Guys Part 3 of 4		Anarchist/Clandestine Laboratories Murdock Part 3 of 4		
2:45 – 3:00 pm		Afternoon Break				
	3:00 – 4:45 pm	Building the plane as we fly it - Li-Ion Batteries in practice The HazMat Guys Part 4 of 4		Anarchist/Clandestine Laboratories Murdock Part 4 of 4		
4:45		End of first day - Dinner on your own				

Thursday May 9th

7:00 – 8:00 am		Continental Breakfast				
General Session #1	8:00 – 9:45 am	Emerging Threats Baxter				
9:45 – 10:00 am		Morning Break				
General Session #2	10:00 – 11:45 am	55 th CST				
11:45 – 1:00 pm		Lunch Break – Lunch Provided				
Workshop Number		Block A	Block B	Block C	Block D	Block E
#1	1:00 – 2:45 pm	First Due Monitoring and Detection Dr. Baxter	Chemical and Physical Properties The HazMat Guys (Part 1 of 2)	Back to the Basics – Grounding and Bonding Rudner	Massachusetts Joint Hazards Incident Response Team Travis	PEAC Refresher PEAC Scott Bunning
2:45 – 3:00 pm		Afternoon Break				
#2	3:00 – 4:45 pm	Emergency Response Decision Support System (ERDSS) Dr. Baxter	Chemical and Physical Properties The HazMat Guys (Part 1 of 2)	Railroad 101 – Understanding Railroad Operations and Safety Rudner	Massachusetts Joint Hazards Incident Response Team Travis	Emergency Response to Plating Operations Murdock
5:00 – 7:00 pm		Exhibitor Social Hour – Food & Beverages Provided				

****Multi-part courses are shaded****

Cold Zone 2024 - Regional Hazmat Conference

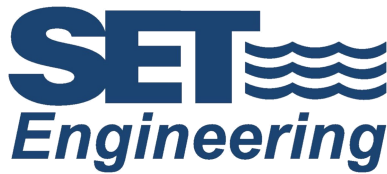
2024 COLDZONE HAZMAT CONFERENCE

Friday May 10th

Continental Breakfast

Workshop Number	7:00 – 8:00 am	Block A	Block B	Block C	Block D	Block E
#3	8:00 – 9:45 am	Rapid Fire Hazmat	Modular Metering	Back to the Basics – Grounding and Bonding	Alphabet soup is good for <u>you</u>	Chlorine 101
		Rykes	The HazMat Guys	Rudner		
#4	10:00 – 11:45 am	Case Study	Building the plane as we fly it - Li-Ion Batteries in <u>practice</u>	Scenario Based Training – Running out of Ideas?	Alphabet soup is good for <u>you</u>	
		CP / BNSF	The HazMat Guys	Rudner		
11:45		Conference Concludes – Thank you for attending and have a safe trip home!!				

****Multi-part courses are shaded****



Cold Zone



National Institute of Environmental Health Sciences

Dr. Christina Baxter

Dr. Baxter is a partner in Hazard3, LLC and the CEO of Emergency Response TIPS, LLC which provide practical, evidence-based solutions for emergency response through the development of next generation tools for enhanced situational awareness and responder safety and instructional design materials for instructor-led and web-based programs in the areas of CBRNE, hazardous materials, and clandestine laboratory response. Prior to forming Emergency Response TIPS, LLC, Dr. Baxter was the program manager over the CBRNE program at the Department of Defense's Combating Terrorism Technical Support Office where she was responsible for managing domestic and international CBRNE research and development programs to combat terrorism on behalf of the U.S. Government, as well as overseeing the international CBRNE agreements with Australia, Canada, Israel, Singapore, and the United Kingdom. Dr. Baxter is the chairperson for the National Fire Protection Association standards for CBRNE personal protective equipment. She is also a committee member for several other standards in the protection and hazardous materials operations arenas. She has greater than 20 years experience in the CBRNE/hazardous materials emergency response community.

Scott Bunning

Ron Huffman

Past Battalion Chief "A" shift, New Castle Fire Department Local 1722 – on the job since 1989
Has held the rank of Firefighter, Driver, Lieutenant and Battalion Chief
Kennard Vol. Fire Department – since 1986
Shirley Vol. Fire Department – 1985-1986
Henry County Emergency Management Agency Director – since 2000
Henry County Local Emergency Planning Committee Chairman – since 1999
Pres. Responder Training, Inc. – since 1989

Thomas Murdock, Ph.D.

Thomas O. Murdock obtained a BS degree in Chemistry from the University of Michigan (1973), a Ph.D. from the University of North Dakota (1977) and postdoctoral studies were completed at the Max Plank Institut fur Kohlenforschung (Mulheim, Germany) during 1978 and the University of Minnesota Chemistry Department (1979 - 1980). Industrial experience includes working as a Research Scientist at the H. B. Fuller Company in St. Paul, MN (1980 – 1991) and as a Research Chemist at ALZA Corporation (1991 - 2000). The research activities at Fuller involved the synthesis of monomers and polymers for adhesive, sealant and coating applications. The most recent experience is at Medtronic, Inc. (3 / 01 to 4/8/2011) where he was a Director of Environmental Health and Safety at the Medtronic World Headquarters Campus in Minneapolis, MN, a Research Chemist in the Polymer Laboratory and the Laboratory Manager. Retired volunteer firefighter (8 ½ years). Courses taught and developed over the past 15 years include the Chemistry of Hazardous Materials, Hazardous Materials Operations Class, Hazardous Materials Technician Class, Emergency Response to Terrorism Awareness Level Class, Incident Response to Terrorist Bombings, Public Protective Action Levels, Minnesota HazMat Regional Response Team Support Class and specialist classes in Anhydrous Ammonia and Chlorine, Water Treatment Chemicals and Air Monitoring. Was the Site Safety Coordinator at the ALZA Corporation and taught Hazard Communication Classes, Flammable and Combustible Liquid Classes, Compressed Gas Classes, Corrosives Classes, Decontamination Classes, and several classes on the safe handling of specific drugs. Thomas O. Murdock has been a speaker at American Chemical Society Meetings (Division of Chemical Health and Safety), the Midwest Hazardous Materials Emergency Responder Conference and the COLDZONE Conference.

Bobby Salvesen

I spent 13 years in Squad 288 in Special Operations of the New York City Fire Department. During that time I gained valuable experience and certification as at minimum a technician level of High angle rope rescue, collapse, confined space, rigging, extrication, diving, shoring, and firefighter removal. I also am a current member of the NY-TF1 FEMA resource as both a Rescue Technician and a Haz Mat Specialist. After my tenure in the Rescue branch of the Fire Department, I transferred to the Hazardous Materials Command. I attained my Hazardous Materials Specialist certification for the FDNY in 2015. I instruct for the Nassau County Fire Service Academy as a Deputy Chief Instructor for the last 9 years. I have taught Hazardous Materials and Confined Space, along with various firematic classes. My volunteer career is ongoing, and has been one of the most rewarding experiences in my life. I joined the East Meadow Volunteer Fire Department in 1994 gaining experience in ranks from Firefighter to Chief, going through the company level ranks 3 times, and recently went through the ranks as Chief of Department of a Department that has roughly 300 members. I am currently a member of the Training Committee, teaching both new members and Line Officers the ins and outs of the job.

Jake Ryks

Jake is a Firefighter / EMT / HazMat Specialist that works for the St. Paul Fire Dept. He also works as the Training Director and Lead Trainer for Bay West LLC, an environmental consulting and hazardous materials response company based out of St. Paul, MN. He has taught classes across the Midwest to both first responders and to various forms of industry that work with hazardous materials. He brings a unique perspective to his courses that prioritizes pertinent information and focuses on making challenging subjects accessible to anyone.





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