Southeastern HazMat School

South Carolina Fire Academy

Registration Packet

March 20-22, 2020
Dear HazMat Enthusiasts,

Our team is excited to present the annual Southeastern HazMat School on the campus of the South Carolina Fire Academy. Please join us for three days of education and fellowship.

We are proud to bring in world class HazMat instructors to share their knowledge and experience. They will provide the latest in HazMat training, both in the classroom and on the field.

Additionally, informative vendor displays, products, and services will keep you engaged and allow you to learn new processes and best practices.

Thank you for your commitment to the public, environment, and property of your fellow South Carolinians.

Sincerely,

Dennis K. Ray
Academy Superintendent
Southeastern HazMat School is held at the SC Fire Academy campus in Columbia, SC.

**GPS Address:** 141 Monticello Trail, Columbia SC 29203

From Interstate 20, take Exit 68 and turn north on Monticello Road (S.C. 215).

Travel about 4.3 miles north to Monticello Trail and turn left. (The road will narrow from four to two lanes about ¼ mile before the turnoff.)

The Academy complex is about ¼ mile down Monticello Trail on the left.
Accommodations

SCFA Dormitory

We recently completed a multi-million dollar dormitory renovation. The top-to-bottom renovation includes new paved parking areas, a hotel-like reception area, new furnishings, and an expanded weight room/gym area.

Make your dorm room selection during the registration process. Dorm rooms are first come, first serve.

**Room Rates/Per Night**

- Single occupancy — $30/night
- Double occupancy — $15/night

In the event the State Fire Academy’s dormitory is full or unavailable, the DoubleTree by Hilton is less than 10 miles away (15 minutes) from the Academy site.

Their 2020 rate is $113 per night (taxes not included) and falls within the GSA reimbursable allowed rate. It also includes breakfast and complimentary parking/airport shuttle.

**DoubleTree by Hilton Columbia**

2100 Bush River Road

Columbia, South Carolina 29210

Two ways to make your DoubleTree by Hilton reservation:

- Call: 1-803-731-0300 and mention group: South Carolina State Fire #0002765133, or
- Book online using the URL listed below (must copy/paste)

Registration

This free weekend conference includes:

- Choice of daily training sessions
- Time with vendors
- Breakfast and lunch daily
- Challenge coin

Register for this event using the paper registration form at the back of this packet. Please scan/email the completed registration to gloria.evans@llr.sc.gov or fax to 803-896-9856.

**REGISTRATION DEADLINE: Thursday, February 13, 2020**

**Note:** Dorm rooms are an additional charge.

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2020 Event Agenda

**Friday, March 20**
PRND Stakeholder Meeting
Population Monitoring - Community Reception Center (8 hours)
Advanced HazMat IQ (8 hours)
Pipeline Awareness and Strike Scenario (8 hours)

**Saturday, March 21**
Radiation Instruments - Operations (4 hours)
Backpack Operations (4 hours)
Rescuing the Rescuer - HazMat Style (16 total hours)
Clandestine Labs (8 hours)
Mobilization Introduction (4 hours)
Chemical Suicide (4 hours)
Modeling with ALOHA and MARPLOT (4 Hours)
Rapid Risk Assessment of Hazardous Materials (4 Hours)
Identifying the Unidentified (8 hours)

**Sunday, March 22**
Rescuing the Rescuer - HazMat Style *(continued from Saturday)*
Training Sessions

Preventive Radiological/Nuclear Detection (PRND) Stakeholders Meeting

South Carolina is not excluded from any type of foreign or domestic radiological and nuclear threat; arguably more vulnerable than most being a coastal state. The South Carolina Preventive Radiological/Nuclear Detection (PRND) program exists to support agencies in detection and prevention of radiological and nuclear threats as well as response to incidents involving radiological and nuclear material. This stakeholder’s meeting is specifically for sheriffs, police chiefs, emergency management directors, and fire chiefs; but all agency hazardous materials leadership staff would greatly benefit and are welcome.

Population Monitoring at Community Reception Centers - 8 hours  
DHS Course #: PER-332

This eight hour course trains emergency responders and non-uniformed support personnel to operate monitoring stations within the Community Reception Center (CRC), or similar reception centers, to perform population monitoring and contamination reduction measures after a radiological or nuclear incident. Examples of incidents that would initiate the establishment of a CRC include a nuclear detonation such as an improvised nuclear device (IND), radiological dispersal device (RDD), an attack on a nuclear power plant (NPP), or other incidents that expose the general population to radioactive contamination.

Advanced HazMat IQ - 8 hours

This eight hour course will challenge students to think critically and includes “Going Beyond Red 1!” Red 1 is the “play” for responding to unknowns, no match, or not sure. Utilizing an additional chart, students will be able go from a Red 1 to the correct “play,” using chemical trade names, synonyms, and/or chemical formulas.

Prerequisite: HazMat Technician

Pipeline Awareness & Strike Scenario - 8 hours

This eight hour course gives the responder the information on the purposes a pipeline serves, where they may be located in their community, how to identify a pipeline right of way, how to read and interpret its markers, and the important role the Pipeline Control Center plays during a pipeline emergency. Also, responder actions at the awareness level from the initial call of a pipeline emergency to actions needed on scene to maintain and control public safety will be discussed. A simulated strike scenario is included during the afternoon session.
Training Sessions

Radiation Instruments Operations - 4 hours DHS Course #: PER-345

This course provides instrument operation skills needed by the first responders when responding to a radiological or nuclear incident. The four hour course provides a general overview of detection equipment, its selection, and general operation. The training will encompass basic operations of the following: Dosimeters, Personal Radiation Detectors (PRDs), Human Portable Radiation Detectors (Backpacks), survey meters, portal monitors, and Radio-Isotope Identifier Devices (RIIDs). The course will enable participants to select the appropriate instrument operation in performance of that mission.

Preventive Radiological/Nuclear Detection Backpack Operations for the Primary Screener

4 hours DHS Course #: PER-246

This four hour course is designed to train the Preventive Radiological/Nuclear Detection (PRND) mission using portable radiation detection systems (backpacks with a higher level of sensitivity than personal radiation detectors) to perform a preliminary radiological assessment. Responders operate backpacks to detect radiation, verify the radiation alarm, localize the source of radiation, measure the radiation level, and assess the threat status of the situation. Participants employ the backpacks to help adjudicate potential threats involving people, vehicles, packages, and facilities. Additional information regarding PRND operations in maritime environments is available and included, as needed.

Prerequisite: PER-243, Primary Screener/Personal Radiation Detector Course, or equivalent Primary Screener training and training in PRD operations

Rescuing the Rescuer: HazMat Style - 16 hours Instructors: Steve Curry & Todd Duncan

During this two-day 16 hour course, the discussion will bring awareness to issues responders may face during a HazMat incident that may require a Rapid Intervention Team (RIT) to be deployed. For several years, fire service members have developed RIT teams for fire ground activities and have practices for this situation. However, those working in the HazMat world really don’t do the same, but should we? We will discuss “Maydays” in a HazMat situation, manpower needed, tooling, along with practical scenarios to put what is discussed into play while in chemical protective clothing.
Training Sessions

Awareness Clandestine Lab - 8 hours  Instructor: Rod Glover

During this eight hour course, topics will include the types of illegally produced drugs (methamphetamine, MDMA, DMT, GHB, etc.). Discussions will include various methods of methamphetamine manufacturing, clues to the presence of illegal labs, and chemicals commonly used in meth production. We will also discuss recognition, identification, hazards, precautions, and issues related to criminal activity, waste disposal, environmental remediation, and property damage.

Mobilization Introduction - 4 hours  Instructor: Chad Beam

In the future, there may be a response where your department could use more help during a large incident. If it is a HazMat situation, the need for help can double - if not triple. Any HazMat scene has the potential to quickly deplete your local resources. South Carolina Firefighter Mobilization can assist in providing the resources you need in order to successfully mitigate a HazMat scene by bringing in manpower and teams from nearby regions. In this class, students will learn the basics of Firefighter Mobilization. These include how to become a part of it, how mobilization is requested, what they bring to your incident and, overall, how the program works. This interactive four hour class will also ensure you leave with another “tool in your toolbox” to better respond during the next HazMat incident.

Chemical Suicide - 4 hours  Instructor: Greg Chesher

A relatively new approach to suicide – using toxic gases generated by the combination of consumer products or common household chemicals – has become more prevalent in recent years. The vapors, especially when trapped in an enclosed space, may exist in concentrations that can be hazardous to first responders. Chemical suicides, also called detergent suicides, involve self-inflicted exposure to toxic gases in a confined space (i.e. cars, bathrooms, or closets), gases created by mixing consumer products or common household chemicals. This four-hour course focuses on the following: recognizing and evaluating a hazardous materials incident, organizing the response team, protecting the lives of responders and employees, identifying and using response resources, equipment, and air monitoring, as well as implementing basic control and containment measures.
Training Sessions

Modeling with ALOHA and MARPLOT - 4 hours  Instructor: Steve Coffin

This four hour course will instruct the student on how to build a site. The student will be instructed on inputting the meteorological data, leak information to generate a footprint, and how to plot a plume on a map in MARPLOT. Afterwards, students will learn how to interpret the results and have an understanding of ALOHA's limitations.

Prerequisite: HazMat Operations

Rapid Rick Assessment of Hazardous Materials - 4 hours  Instructor: Steve Coffin

This four hour course begins with physical and chemical properties and how they relate to emergency response operations. It also covers the hazards of chemicals and associated common terms. It finishes with an overview of chemical families and the associated common hazards. Upon completion, each student will have an understanding of physical chemical properties and how they relate to emergency response. They will also gain an understanding of the hazards presented by chemicals and those associated with certain families of chemicals.

Prerequisite: HazMat Operations

Identifying the Unidentified - 8 hours  Instructor: David Probo

During this eight hour course, students will use wet chemistry to identify a series of unidentified liquids and solids. Students will have the opportunity to conduct experiments using the HazMat Kit. Students will also gain an understanding of how colors play an important part in identifying chemical hazards. We will also react off various flammables and oxidizers to demonstrate the reactive power of common chemicals.
Instructor Information

Greg Chesher

Having served the Charleston Fire Department for 21 years, Greg Chesher is currently a Battalion Chief and Health and Safety Officer. He maintains the position of Senior Advisor for the Charleston Fire Department’s HazMat Team, is a certified Rae Systems Monitor Technician and a Clandestine Lab Technician. He also serves as Team Leader for the WMD/HazMat regional response team – Charleston, the HazMat Technician for the Charleston County Sheriff’s Office Bomb Squad, and is a HazMat manager on SCTF-1.

David Probo

David Probo currently serves as the Spartanburg County Hazardous Materials Team Coordinator. Prior to his current role, he served seven years as the Assistant Director of Fire Training for Indiana State Fire Academy. He retired from the St. Johns Fire Department with 25 years. Additionally, he co-authored a HazMat Awareness and Operations book for Fire Engineering.

James “Steve” Coffin

With nearly 40 years in the fire service, Steve Coffin is currently the North Charleston Fire Department HazMat coordinator. Previously, he was a firefighter/paramedic/special operations technician with Sarasota County Fire Department (Florida). He has been a fire service instructor for 30 years and teaches throughout the country. As a National Fire Academy instructor, he has instructed Advanced Life Support Response to Hazardous Materials Incidence, Chemistry for Emergency Response, Special Operations Program Management, HazMat Incident Management, and Operating Site Practices. He has also been involved in the development of numerous training programs, including Advanced Life Support Response to HazMat Incidents.

Roderick “Rod” Glover

Rod Glover is a retired officer from the Hoover Police Department in the metropolitan Birmingham area. During his law enforcement career, he served as a crime scene investigation supervisor, narcotics unit supervisor, bomb squad commander, and special response team member. In addition to his work with the city police department, he was assigned full-time to the Federal Bureau of Investigation Joint Terrorism Task Force for several years. His experience through the FBI, US State Department, and Department of Homeland Security has allowed him to work and train with civilian fire service and law enforcement as well as military teams from all around the globe in the field of WMD response and explosive ordnance disposal.
Instructor Information

Todd Duncan

Todd Duncan serves as the Hazardous Materials Captain for the South Carolina Fire Academy and has been an instructor for 13 years. Since 2013, he has served as the SC Task Force 1 Hazardous Materials Manager. He is also a member of the Lancaster Fire Department (16 years) and is a Lieutenant. He is certified in Hazardous Materials, Rope Rescue, Confined Space Rescue, and Swiftwater Rescue. Before joining the fire service, he earned a Bachelors of Science in Chemistry from Gardner-Webb University. In the past, he worked as a research scientist at the Clemson Technical Center performing treatability studies on hazardous, radioactive, mixed, and TSCA waste, as an engineer for the wastewater treatment section of Chem-Nuclear Systems of Columbia, and as a Project Manager for multiple dredging and dewatering companies working with hazardous and non-hazardous materials.

Steve Curry

Retired Battalion Chief Steve Curry served as a member of the Columbia Fire Department for 25 years. As a Battalion Chief, he covered Battalion 1 and the downtown area. He also served as Chief of Training (five years) and on the Hazardous Materials Company (16 years). Chief Curry has been instructing at the SC Fire Academy for the past 23 years - primarily focusing on HazMat programs. He is also an instructor with FEMA Homeland Security at the Center of Domestic Preparedness in Anniston, AL teaching hazardous materials and WMD classes (14 years). Before retirement, he served as the assistant HazMat team leader for the Midlands WMD Regional Response team. He is a member of SCTF-1 as a HazMat Manager and Safety Officer.

Chad Beam

Chad currently serves as a Branch Chief for the South Carolina Emergency Response Task Force - which is part of the SC Office of State Fire Marshal. He began his career in 2005 as a firefighter/EMT and obtained his paramedic certification in 2009. He lives in Fountain Inn, SC where he also serves the City of Fountain Inn as a part-time engineer and police officer. Chad has served in many roles in Fire and EMS from provider to administration. In 2017, he graduated with a Bachelors in Emergency Management from Anderson University and will soon graduate from Clemson University with a Masters of Public Administration with a concentration in Emergency Management.
Vendor & Sponsorship Opportunities

Your department, association, or company can participate in this event as a vendor or sponsor. By doing so, vendors and sponsors help offset the cost of meals, shirts, and registration fees for attendees.

For more information on these opportunities, please email Amy Williamson
amy.williamson@llr.sc.gov

Web & Social Media

Visit us on the web
http://statefire.llr.sc.gov

In an effort to quickly communicate and interact with our customers, SC State Fire utilizes social media. To keep up to date, we encourage you to follow our official accounts:

Twitter: @SCStateFire  @SCStateFM  @SCDLLR
Facebook: South Carolina State Fire
Southeastern HazMat School  
March 20-22, 2020

**Registration Form: 8004-20-001**

**Registration Fee:** None

**SCFID:** _____________

**Last Name:** ____________________________________________  **First:** __________________________  **Initial:** _____

**Street:** __________________________________________________________________________________________________

**City:** ___________________________________  **State:** ___________  **ZIP:** ______________  **County:** _______________________

**Date of Birth:** _____________________________  **Phone:** ________________________________________

**Email Address:** ___________________________________________________________________________________________

**FDID #:** ________________  **Fire Department:** _______________________________________________________________

**DORM REQUEST** Dorm rooms are assigned on a first come-first serve basis. Checking the box does not guarantee a room assignment. If you are assigned a dorm room, you will be notified and billed. Do not send payment for dorm rooms with this application.

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<td><strong>Male</strong></td>
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**TRAINING SESSIONS**

**Friday Courses** *(select one)*

- 8005-20007 PRND Stakeholder Meeting
- 8005-20001 Population Monitoring (8 Hours)
- 8005-20002 Advanced HazMat IQ (8 Hours)
- 8006-20001 Pipeline Awareness & Strike Scenario (8 Hours)

**Saturday Courses** *(select two 4-hour programs, one 8-hour program or the 16-hour course)*

- 8006-20002 Radiation Instruments (4 Hours)
- 8006-20003 Backpack Operations (4 Hours)
- 8006-20004 Mobilization Introduction (4 Hours)
- 8006-20005 Chemical Suicide (4 Hours)
- 8006-20006 Modeling with ALOHA and MARPLOT (4 Hours)
- 8006-20007 Rapid Risk Assessment (4 Hours)
- 8005-20004 Clandestine Labs (8 Hours)
- 8005-20005 Identifying the Unidentified (8 Hours)
- 8005-20003 Rescuing the Rescuer-HazMat Style (16 Hours/8 Hours Saturday/8 Hours Sunday)
- 8005-20006 Modeling with ALOHA and MARPLOT (4 Hours)
- 8006-20007 Rapid Risk Assessment (4 Hours)
- 8005-20004 Clandestine Labs (8 Hours)
- 8005-20005 Identifying the Unidentified (8 Hours)
- 8005-20003 Rescuing the Rescuer-HazMat Style (16 Hours/8 Hours Saturday/8 Hours Sunday)

**Agreement and Waiver / Liability Release**

- In consideration for participating in SC Fire Academy training, I hereby release, indemnify, and covenant not to sue the SC Fire Academy, SC Department of Labor, Licensing and Regulation, the State of South Carolina, their officers, agents or employees (Releasees) as well as any other students or instructors from any and all liability, claims, cost and causes of action arising out of or related to any property damage or personal injury, including death, that may be sustained by me, while participating in such activity, or while on the premises owned, leased or used by Releasees. I acknowledge the training involves physically strenuous activities in which I am capable of fully participating. I know of no physical or mental condition that would preclude my full participation in the training.

- I certify the information on this registration form is correct. I agree to abide by the rules, policies, and regulations of the South Carolina Fire Academy. I understand falsifying information or violating rules or procedures may result in me being denied admission to the course and/or loss of course credit.

- I authorize the release of any information concerning my enrollment and completion of SCFA courses to me, my fire chief, or my department training officer.

- I understand the South Carolina Fire Academy is not authorized to provide travel, medical, nor health insurance. I verify that I (or my agency) maintain appropriate and necessary coverage, and I understand that I (or my agency) will be responsible for any medical expenses I may incur as a result of my participation in this program.

- I understand the nature of the tasks I may perform while involved in this training may require a high degree of physical fitness, agility, and dexterity, and this may include rigorous exercises which require physical fitness, strength, and stamina. I am fully aware of the risks and hazards associated with fire, rescue and hazardous materials training, including but not limited to burns, heat stroke, heart attack, heat exhaustion, falls and other related injuries, and I choose to voluntarily participate in the activity with full knowledge that said activity may be hazardous to me and my property.

- By signing this release, I acknowledge I have read and understand the Release and I am at least **18 years of age** and fully competent and a member of a legally organized fire department, fire brigade, fire related business or emergency response organization.

- By registering for this course, I hereby give the South Carolina Fire Academy permission to reproduce and publish my name and/or photographic likeness.

**Required Signatures:**

- **Student/Date**
- **Fire Chief or Designee/Date**