



SOUTH CAROLINA

**STATE FIRE**



# Industrial Training Programs



[statefire.llr.sc.gov](http://statefire.llr.sc.gov)



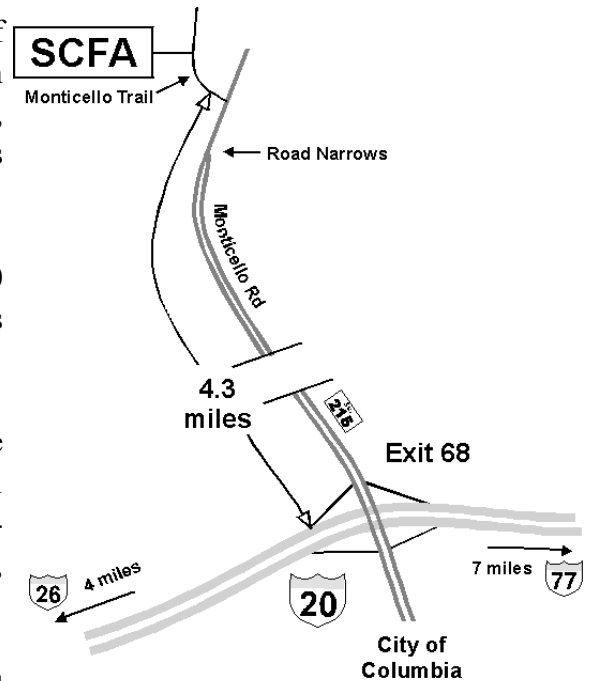
# Campus

The South Carolina Fire Academy's facility is one of the most comprehensive state fire training facilities in the United States. Located on 208 acres in Columbia, SC, the campus is just off Monticello Road, four miles north of Exit 68, off Interstate 20.

For large lectures, the Denny Auditorium seats 200 plus. For smaller groups, there are several classrooms that each seat 25.

During the week, students eat breakfast and lunch in the cafeteria. The cafeteria also houses the SCFA General Store, which offers a wide assortment of South Carolina Fire Academy related apparel and souvenir options, with new inventory added on a regular basis.

Students staying overnight enjoy the newly renovated dormitory with hotel-like accommodations. Each room has a private bathroom, and linens are provided. Single and double occupancy are available.



# State-of-the-Art Props

The South Carolina Fire Academy features multiple state-of-the-art live fire props. These give our training programs consistency while increasing the level of student safety.

Our facility also features several traditional props allowing for a variety of real-world training scenarios. These props include:

- 2 ½ story computer-operated, propane fueled burn building with multiple burn areas and a flashover simulator which can represent residential, commercial, and industrial facility configurations
- Two multiple story class-A burn buildings, each with multiple burn areas
- 5-story drill tower with different configurations on each floor, a search and rescue maze, sprinkler and standpipe props, and interior shafts for elevator and rope rescue training
- Several large and small scale flammable liquid burn props, as well as rail cars, for foam and extinguisher training
- Several LP Gas props for hand-line training
- Three multiple configuration confined space rescue props.
- Two computer-operated, propane fueled, replica 737 aircraft crash/rescue simulators
- Hazardous materials spill and leak props, including several tank trucks and rail cars
- UH-60 Blackhawk Helicopter Simulator with integrated engine fire and two additional burn zones



# True-to-Life Training



Industrial fire brigade members need specialized training in order to effectively mitigate in-plant emergencies. Our courses address your specific needs and are designed for students associated with all types of facilities and processes.

The training students experience at the South Carolina Fire Academy includes curricula based on national standards, real-life props, and certified instructors who deliver the most realistic training experience available.

Our comprehensive programs utilize the most current suppression and prevention techniques. Emphasis is placed on field training through hands-on learning experiences.

Dynamic scenarios are designed to prepare students, in a safe and controlled environment, to respond to real world emergencies using the most advanced available tactics. This ensures your fire brigade is ready and able to respond in the most effective and efficient manner possible.

## Customization

Our staff can custom design specific training programs to meet your company's objectives in all areas of emergency response, including fire brigade training, fire protection system training, confined space and high-angle rescue, hazardous materials, and incident command. Refresher programs are also available to assist you in meeting the OSHA mandated annual refresher requirements. Our staff can meet with you, visit your facility, review your hazards and training needs, and provide a training program to meet your emergency plan needs.

The South Carolina Fire Academy also offers companies the flexibility of site specific training at your facility.

Courses are scheduled upon request, and can be customized in various ways based on student enrollment numbers.



# Courses

*Note: The South Carolina Fire Academy does not qualify firefighters or emergency team members for any job, other than instructors. Per OSHA standards, only the fire chief, manager or designee can qualify or certify personnel within the industry as being adequately trained for the assigned job.*

<b>9101</b>	<b>Annual Fire Extinguisher Training</b>
Scope and Content:	Through classroom and live fire training, the participant will understand the classes of fire, select the correct extinguisher and demonstrate extinguishing a small fire. Topics covered include personal safety and using a fire extinguisher, basic chemistry of fire, classes of fire and emergency action if a fire is discovered.
Test:	None
Skill/Training Level:	OSHA 29 CFR 1910.157
Length:	2 hours
Prerequisite:	None
Student Min/Max:	12/20*

<b>9110</b>	<b>Incipient Fire Brigade</b>
Scope and Content:	This course provides fire brigade members with an introductory level of firefighting training. Topics include fire behavior, chemistry of fire, portable fire extinguishers, standpipe systems, use of 1 3/4" fire attack hose lines and fire streams. This course includes classroom presentations and practical field exercises.
Test:	None
Skill/Training Level:	OSHA 29 CFR 1910.156
Length:	8 hours of instruction and field exercises
Prerequisite:	None
Student Min/Max:	12/25*

<b>9121</b>	<b>Interior Structural Firefighting</b>
Scope and Content:	This course trains students to perform the necessary skills associated with interior firefighting. It consists of classroom presentations with emphasis on hands on drills to reinforce necessary skills. Topics include protective equipment, in depth use of SCBA, fire extinguishers, search and rescue, fire streams, interior fire attack principles and live fire exercises that utilize the computerized propane fueled burn building or class A burn building.
Test:	Written exam and practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.156
Length:	4 days of instruction and field exercises
Prerequisite:	None
Student Min/Max:	12/20*

<b>9123</b>	<b>Interior Structural Firefighting Annual Refresher</b>
Scope and Content:	This course refines student skills in interior structural firefighting. Topics include personal protective equipment and self-contained breathing apparatus, attack lines and fire streams, search and rescue, interior fire attack principles and live fire drills.
Test:	Practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.156
Length:	8 hours
Prerequisite:	Interior structural firefighter (9121 or equivalent)/SCBA training
Student Min/Max:	12/20*



# Courses

<b>9124</b>	<b>Initial Fire Brigade</b>
Scope and Content:	This program is a combination of our 9121-Interior Structural Firefighting and 9181-Flammable Liquids and Gas Firefighting courses.
Test:	Written exam and practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.156/120
Length:	5 days of instruction and field exercises
Prerequisite:	None
Student Min/Max:	12/20*

<b>9180</b>	<b>Flammable Gas Firefighting</b>
Scope and Content:	This course provides skill development necessary to effectively deal with fires involving flammable gases. The program focuses on the physical and chemical properties of common flammable gases and the fire attack techniques.
Test:	Practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.156/120
Length:	8 hours of instruction and field exercises
Prerequisite:	Interior structural firefighter (9121 or equivalent)/SCBA training
Student Min/Max:	12/20*

<b>9181</b>	<b>Flammable Liquids &amp; Gas Firefighting</b>
Scope and Content:	This course provides the fundamental skills needed to deal with fires involving flammable liquids and gases. The program content includes physical and chemical properties of fuels, storage and uses, and fire attack techniques for these fuels including foam application.
Test:	Practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.156/120
Length:	8 hours of instruction and field exercises
Prerequisite:	Interior structural firefighter (9121 or equivalent)/SCBA training
Student Min/Max:	12/20*

<b>9182</b>	<b>Flammable Liquids Firefighting</b>
Scope and Content:	This course provides skill development necessary to effectively deal with fires involving flammable/combustible liquids. Program content focuses on the physical and chemical properties of fuels, storage and uses, and fire attack techniques including foam application.
Test:	Practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.156/120
Length:	4 hours of instruction and field exercises
Prerequisite:	Interior structural firefighter (9121 or equivalent)/SCBA training
Student Min/Max:	12/20*

# Courses

**We can customize or create programs to fit your needs!**

<b>9602</b>	<b>Industrial Fire Brigade/Emergency Team Leader</b>
Scope and Content:	This course provides training for personnel who may be in charge of an emergency team during a plant emergency such as the fire brigade or rescue team. This course will review the emergency team organization and responsibilities, safety and accountability of team members, emergency scene command and control, operations, communications, fire emergencies and rescue situations, pre-incident planning and emergency team training.
Test:	None
Skill/Training Level:	n/a
Length:	8 hours of instruction and table top exercises
Prerequisite:	None
Student Min/Max:	12/20*

<b>9151</b>	<b>Confined Space Rescue I</b>
Scope and Content:	This course prepares industrial emergency response personnel for rescue in and from confined space areas. Topics include identification of confined spaces, OSHA standards, use of protective equipment, atmospheric monitoring, patient packaging and removal, and assessment of confined space hazards.
Test:	Written exam and practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.146
Length:	2 days of instruction and field exercises
Prerequisite:	SCBA Training
Student Min/Max:	12/20*

<b>9153</b>	<b>Confined Space Rescue Refresher</b>
Scope and Content:	This course provides refresher training to personnel who have previously attended confined space training. This program reviews hazards of confined spaces and the rescue techniques and hands on rescue evolutions in confined space props.
Test:	Written exam and practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.146
Length:	8 hours of instruction and field exercises
Prerequisite:	Confined Space Rescue I or equivalent/SCBA training
Student Min/Max:	12/20*

<b>9165</b>	<b>Technical Rope Rescue</b>
Scope and Content:	This course is designed to teach emergency response personnel methods of rescuing victims from above ground structures such as water towers, construction sites and high rise structures. Topics include basic rigging techniques, mechanical advantage systems, raising and lowering systems and patient packaging.
Test:	Written exam and practical skill evaluation
Skill/Training Level:	n/a
Length:	2 days of instruction and field exercises
Prerequisite:	None
Student Min/Max:	12/20*

# Courses

<b>9701</b>	<b>Hazardous Materials Operations (HAZWOPER)</b>
Scope and Content:	This course is designed for haz mat responders who have the responsibility of protecting nearby persons, property or the environment by acting in a defensive manner at a hazardous materials incident. (OSHA defines a defensive action as the responder not being expected to come into contact with the product.)
Test:	Written exam
Skill/Training Level:	OSHA 29 CFR 1910.120
Length:	2 days of instruction and field exercises
Prerequisite:	None
Student Min/Max:	12/20*

<b>9173</b>	<b>Hazardous Materials Operations (HAZWOPER) Annual Refresher</b>
Scope and Content:	This course is a refresher of the operations level course and is an enhancement of that training. Topics include ICS, protective equipment, physical properties, containment and decontamination operations relative to defensive operations only.
Test:	Written exam and practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.120
Length:	8 hours of instruction and field exercises
Prerequisite:	Haz Mat Operations level training
Student Min/Max:	12/20*

<b>9702</b>	<b>Hazardous Materials (HAZWOPER) Technician</b>
Scope and Content:	This course is designed to provide a basis for hazardous materials responders at the technician level, geared to introduce students to equipment encountered in offensive response tactics. Students will demonstrate proficiency in areas such as hazard awareness, protective clothing, decontamination procedures, direct reading instruments and spill and leak control operations.
Test:	Written exam and practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.120
Length:	5 days of instruction and field exercises
Prerequisite:	Haz Mat Operations level training
Student Min/Max:	12/20*

<b>9175</b>	<b>Hazardous Materials (HAZWOPER) Technician Annual Refresher</b>
Scope and Content:	This course provides the student with the annual training required to maintain skills for offensive response tactics. Topics include containment and confinement operations, decontamination exercises, Level A and B dress-out and use of air monitoring instruments.
Test:	Written exam and practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.120
Length:	2 days of instruction and field exercises
Prerequisite:	Haz Mat Technician
Student Min/Max:	12/20*



# Courses

**Site specific training at your facility, or our campus!**

<b>9187</b>	<b>Chlorine Response Specialist</b>
Scope and Content:	This course covers the associated physical and chemical hazards of chlorine and the offensive control tactics for haz mat teams dealing with a chlorine release. Students will learn, practice and be evaluated on the application of chlorine control kits for 100lb and 150lb cylinders, one-ton cylinders and rail cars.
Test:	Written exam and practical skill evaluation
Skill/Training Level:	OSHA 29 CFR 1910.120
Length:	2 days of instruction and field exercises
Prerequisite:	Haz Mat Technician
Student Min/Max:	12/20*

\* *maximum capacity may be exceeded based on contract*

## Applicable Policies

### Course Contracts & Student Registration

Individual course contracts will be developed for all courses and custom designed programs. The contract must be signed and returned with a purchase order or company check prior to start date.

### Student Eligibility

Any commercial or industrial plant employee or contractor involved with fire, rescue or other emergency response activities can attend our campus industrial courses. Students participating in hands on fire ground and rescue training must be physically capable of performing strenuous training exercises. Physical capability is defined as the ability to actively participate in strenuous tasks often associated with fire service duties. Those students who only attend lectures do not have to meet the physical capability requirements.

Officials must ensure that employees attending refresher training programs have received basic or initial fire training prior to attending the refresher courses.

### Completion Criteria/Student Certificates

For satisfactory completion, all courses and seminars require appropriate attendance and participation. Students who complete the course with an overall average of 70% or higher and satisfactorily complete all physical and practical exercises will receive a certificate indicating successful completion. Students certificates are mailed within 30 days of course completion.

### Protective Equipment

For student safety, self-contained breathing apparatus (SCBA) and personal protective clothing are required for all live fire training programs. Students may furnish their own protective clothing, if it meets NFPA requirements, or rent it from the South Carolina Fire Academy. If rental is desired, it must be requested on the contract and on the student registration forms. The South Carolina Fire Academy owns a limited amount of gear in a wide range of sizes, including coats size 36-54, pants size 30-48 waist, and boots size 6-14. *If you require smaller or larger sizes, you must supply your own gear.* All protective clothing furnished by the South Carolina Fire Academy is cleaned and sanitized after each use to ensure proper personal hygiene.

# Student Procedures

**Attendance and Tardiness:** Students are required to attend the first day of class. Classes held on campus begin promptly at 8:30 a.m., unless otherwise noted on the course contract. Students are required to be punctual.

**Absences:** Students are not permitted to leave during training hours, unless permission has been granted by the instructor. Failure to comply will result in an unexcused absence and possible dismissal. Emergency leave may be allowed on a case by case basis.

**Withdrawals:** The course instructor must be notified should it become necessary for a student to withdraw from a course. All equipment and supplies issued to the student must be returned prior to leaving class.

**Personal Items:** The South Carolina Fire Academy assumes no liability or responsibility for loss, theft or damage to personal items.

**Parking:** Students may only park in designated parking areas.

**Equipment:** Students are responsible for the proper care and return of all South Carolina Fire Academy issued equipment and/or supplies.

**Cheating:** Any student cheating will be immediately dismissed.

**Physical Training:** All students must participate in every aspect of training. Failure to participate will result in an "Non-Complete" in the course.

**Illness/Injury:** Ill or injured students must report immediately to the instructor. Students are expected to be covered by the company they represent with Workers Comp Insurance or similar coverage. The South Carolina Fire Academy does not provide Workers Comp or medical insurance coverage for students, and assumes no liability or responsibility for illness or injury experienced while attending or participating in its programs.

**Prohibited Substances:** No alcoholic beverages are allowed on campus. No student may participate in any training program while under the influence of alcohol, prohibited or controlled substance. This includes narcotics or any other agent that may impair judgment or physical ability to participate.

**Weapons & Explosives:** Weapons of any type, and/or explosives, are prohibited on the South Carolina Fire Academy campus. This includes but is not limited to firearms, ammunition, bows, arrows, knives, blasting agents or fireworks. Any student found with any type of contraband will be subject to immediate dismissal.

**Dress Code:** Standard attire may be worn in class and for evolutions not requiring protective clothing. Students are required to wear shirts with sleeves. No shorts are allowed in classrooms, or under protective clothing. Students are required to wear ankle-length pants, shirts with sleeves, socks and closed-toe work shoes/boots during practical exercises.

**Personal Grooming:** Hair may not be worn outside the PPE ensemble.

**Student Conduct:** South Carolina Fire Academy administration will review all infractions committed by students, including: violations of law, gambling, possession of illegal substances, disorderly conduct, racial or sexual slurs or harassment, profane or obscene language, property damage, or any action that interferes with training or endangers the safety of any individual. A determination that a student has committed a violation may result in dismissal from training. Student grievances must be made in writing to the South Carolina Fire Academy Superintendent.

