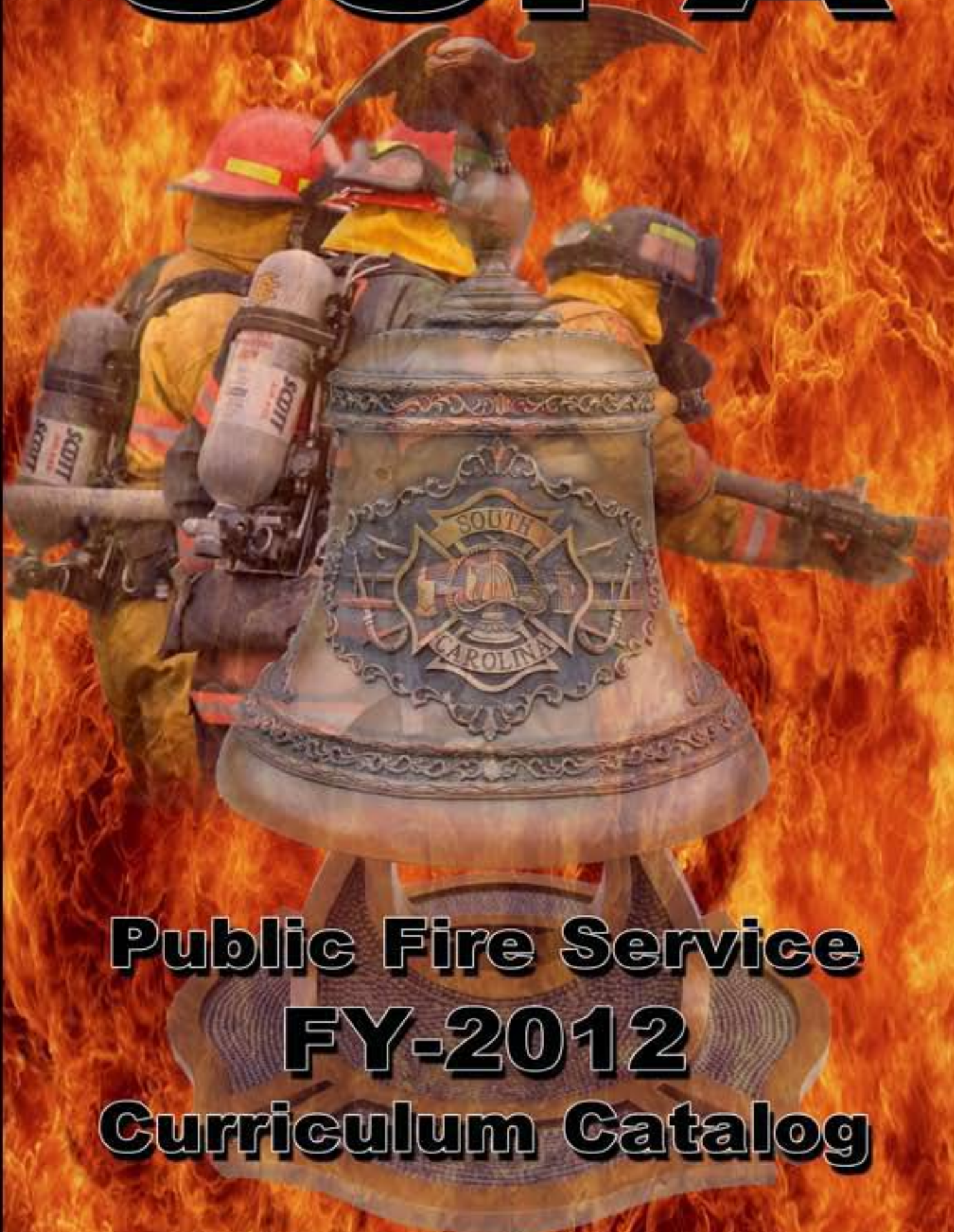


**South Carolina Fire Academy**

**SCFA**



**Public Fire Service  
FY-2012  
Curriculum Catalog**

## **The South Carolina Fire Academy's Commitment to You . . . . . . Our Customer**

The Fire Academy prides itself as a customer-focused, state-of-the-art fire and emergency response training facility recognized for superior fire protection and emergency services training.

### **SCFA Mission Statement**

The mission of the South Carolina Fire Academy is to develop an instructional delivery system through which a standardized statewide firefighter training curriculum is developed and implemented to train a maximum number of career, volunteer and industrial fire service personnel to:

1. Develop the skills necessary to command and control emergency operations involving fire, rescue and hazardous materials incidents.
2. Develop the managerial and leadership skills of all levels of fire officers.
3. Develop skills in fire department support functions to include public fire education, fire prevention, inspections and fire investigations.
4. Develop a keen external focus, particularly with regard to our customers
5. The South Carolina Fire Academy is committed to training and using the 16 Firefighter Life Safety Initiatives every day so "Everyone Goes Home".



*An International Fire Service Accreditation Congress Accredited Agency*



# **16 Firefighter Life Safety Initiatives**

**“everyone goes home”**

- 1.** Define and advocate the need for a cultural change within the fire service relating to safety; incorporating leadership, management, supervision, accountability and personal responsibility.
- 2.** Enhance the personal and organizational accountability for health and safety throughout the fire service.
- 3.** Focus greater attention on the integration of risk management with incident management at all levels, including strategic, tactical, and planning responsibilities.
- 4.** All firefighters must be empowered to stop unsafe practices.
- 5.** Develop and implement national standards for training, qualifications, and certification (including regular recertification) that are equally applicable to all firefighters based on the duties they are expected to perform.
- 6.** Develop and implement national medical and physical fitness standards that are equally applicable to all firefighters, based on the duties they are expected to perform.
- 7.** Create a national research agenda and data collection system that relates to the initiatives.
- 8.** Utilize available technology wherever it can produce higher levels of health and safety.
- 9.** Thoroughly investigate all firefighter fatalities, injuries, and near misses.
- 10.** Grant programs should support the implementation of safe practices and/or mandate safe practices as an eligibility requirement.
- 11.** National standards for emergency response policies and procedures should be developed and championed.
- 12.** National protocols for response to violent incidents should be developed and championed.
- 13.** Firefighters and their families must have access to counseling and psychological support.
- 14.** Public education must receive more resources and be championed as a critical fire and life safety program.
- 15.** Advocacy must be strengthened for the enforcement of codes and the installation of home fire sprinklers.
- 16.** Safety must be a primary consideration in the design of apparatus and equipment.

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# Information and Policies

## GENERAL OVERVIEW

This is an annual curriculum catalog that lists all courses available from the South Carolina SCFA (SCFA) for the public fire service. The insert lists the schedule of public fire service training offered from July through December 2011. A second insert will be mailed in the month of November for the January to June 2012 course schedule. Many courses may be conducted as a “requested course”, provided an adequate number of students can be gathered and adequate funding exists. See pages 7 and 8. The information, policies and procedures in this catalog represent current practices. Participants and attendees of SCFA training are expected to abide by these policies and procedures. The SCFA reserves the right to modify its operating practices, as necessary, to maintain the mission of providing the highest level of training in the safest and most efficient manner. Students will be notified of any change which affects their attendance or participation.



## SCFA ADVISORY COMMITTEE

The SCFA Advisory Committee is legislatively mandated and gives advice and assistance to the State Fire Marshal in developing a comprehensive training program based on the needs of the state’s fire service. The committee meets at least quarterly.

Voting members are comprised of six members from the S.C. State Firefighters Association, one member presiding as chairman. Other members include one member of the following: State Fire Chief’s Association, Society of Fire Service Instructors, State Arson Investigator’s Association, S.C. Fire Marshals Association, Professional Firefighter’s Association, industrial fire protection representative, Fire and Life Safety Educators Association and a higher education representative. Nonvoting members are the SCFA superintendent, the State Fire Marshal and Firefighters Association executive director. Please refer to [www.scfa.state.sc.us](http://www.scfa.state.sc.us) for the listing of current members.

## AG-010 SCFA Guidelines

### 1.0 PURPOSE

The SCFA and the Fire Marshal’s office make up the Division of Fire and Life Safety which is a division of the South Carolina Department of Labor, Licensing and Regulation. The SCFA provides fire, rescue, code enforcement, fire investigations and emergency response training to emergency service organizations throughout the state, the country and foreign countries. The SCFA’s mission is to provide the highest level of emergency response and management training as effectively and efficiently as possible for South Carolina’s fire and emergency services personnel and others who attend our courses. This mission is met through an ongoing program of curriculum development and delivery that uses the most up-to-date methods and meets national standards (NFPA), IFSAC accreditation criteria and OSHA regulations.

The Academy's relationship, for most courses is with the fire chief for the student approved to attend the course, whether a paid employee or a volunteer. Payment is made by the fire department and is responsible for any costs and expenses incurred by the student. All participants, attendees, instructors; staff involved with SCFA training are expected to abide by SCFA guidelines at all times. If a problem occurs with a student, the fire chief will be notified. If the chief is unavailable, disciplinary action up to and including dismissal may be taken and the chief notified as soon as possible. For the "Open Enrollment" program, the SCFA will deal directly with the student. For the "Explorer" program, the SCFA will deal with the student (minor) and the BSA Explorer post leader.

The SCFA reserves the right to modify these guidelines/best practices at any time to maintain the mission of providing the highest level of training in the safest and most efficient manner. Students will be notified of any change that affects their attendance or participation.

The SCFA offers an "Open Enrollment" program (see AG-033) for non-fire service personnel. See section 5.1.3 on page 9.

The SCFA also offers a "Learning for Life Exploring Program" for 16 and 17 year old (see AG-007) that is provided to members the a Boy Scouts of America Exploring Post. See section 5.1.2 on page 8.

## 2.0 REFERENCES

AG-002	0	Heat Stress Prevention
AG-003	2	Instructor Safety Guidelines
AG-004	0	Regional Operations
AG-005	0	1151 Recruit School
AG-006	1	Regional Safety Guidelines for Live Burns
AG-007	1	Learning for Life Exploring Program
AG-033	0	Open Enrollment Program
AP-003	2	First Aid and Accident Reports
AP-010	6	Instructor Certification Policy
AP-011	3	Accreditation & Certification Guidelines
AP-014	0	Review of Concerns/Complaints
AP-015	1	Reciprocity/Equivalency Program
AP-016	0	Release of Student Records Information
AP-017	1	Certification Test Security
AP-018	0	Curriculum Development
AP-030	0	Respirator Protection Policy
AP-033	0	Open Enrollment Guidelines
SP-001	0	Safety Guideline

## 3.0 DEFINITIONS

### 1. Accreditation and Certification

The SCFA is accredited by the International Fire Service Accreditation Congress (IFSAC). This international group is made up of entities from the United States, Canada, Great Britain, Australia, South Africa and the United States Department of Defense, among others. Accreditation guarantees that the SCFA certification program has been carefully reviewed by a group of fire service professionals and that it meets national and international standards. The SCFA currently offers accredited certifications meeting NFPA standards in 16 occupational areas, including:

- Firefighter I
- Firefighter II
- Driver/Operator - Pumper
- Driver/Operator - Mobile Water Supply
- Driver/Operator - ARFF
- Driver/Operator - Aerial
- Aircraft Rescue Firefighter
- Fire Instructor I
- Fire Instructor II
- Fire Officer I
- Fire Officer II
- Hazardous Materials Awareness
- Hazardous Materials Operations
- Fire Inspector I
- Fire & Life Safety Educator
- Juvenile Fire Setter Intervention Specialist I



### 2. Facilities and Regional Offices

The SCFA is the most comprehensive state fire training facility in the United States. The main campus and administrative office is located at 141 Monticello Trail, four miles north of exit 68 off Interstate 20. The SCFA also has six regional offices located as follows:

Region 1	Greenville Regional Office
Region 2	Rock Hill Regional Office at York County Fire Training Site
Region 3/4	Florence Regional Office
Region 5	Charleston Regional Office
Region 6	Columbia Regional Office at the SCFA
Region 7	Greenwood Regional Office

### 3. Publications

**Public Fire Service Curriculum Catalog** - This annual course catalog lists all courses offered to the public fire service, regardless of the method of delivery. Detailed descriptions of courses, prerequisites, class sizes and course fees. Information regarding the instructor program are included along with general policies and course listings for training and certification.

**Public Fire Service Course Dates** - Schedule of courses to be delivered as resident and regional courses (course catalog) is published two times each year: Jan. 1 through June 30 and July 1 through Dec. 31.

Detailed information regarding the days, hours and specific location of courses is provided. The course catalog is provided to customers approximately six weeks prior to the start of each of the semiannual course catalog lists.

#### **4. Types of Training Courses**

The SCFA delivers training in the four general areas. Courses in this catalog are devoted to the paid and volunteer public fire service. Industrial training is not included.

All SCFA courses require pre-registration. Courses have a 30-day cut off prior to the start date. The SCFA recommends each student register early to ensure acceptance into the preferred course. This also allows the SCFA to guarantee that the minimum number of students have registered so the course can be taught. “Walk-ins” are not allowed.

- 1. Regional Catalog Courses** - As requested by a local fire department, field courses are held throughout the state. They are scheduled by regional supervisors and offered to area fire service personnel. These courses are taught by SCFA adjunct instructors and are listed in the semiannual course catalog (course requirements and fees apply). The host department is guaranteed 10 slots per course. All other registrations are first-come first-serve. Course evaluation may be combined with another evaluation at the discretion of the SCFA.
- 2. Resident Catalog Courses** - Open to all fire service personnel, these courses are offered at the SCFA in Columbia. Courses are taught by full-time faculty and adjunct instructors. They include every type of course offered by the SCFA including, basic firefighter, strategy and tactics, specialized rescue, haz-mat, advanced fire fighting, leadership, management, fire inspection, fire investigation courses, special weekend programs and seminars.
- 3. Training-In-House Courses** - To deliver training at the local level, in-house courses are taught by SCFA certified instructors within their fire departments. Programs are set up to fit the schedule of the department and to meet student needs. They are coordinated through the regional office. Instructors use SCFA lesson plans and SCFA credit is granted. All SCFA policies apply. To deliver this training, the SCFA requires fire departments to do the following:
  1. Submit a written request to the regional coordinator at least 30 days prior to the requested start date. If the course requested requires a 30-day cutoff date, then a 60-day written notice is required.
  2. Once the course is approved, the department must submit student registration forms to the regional office by the deadline (30 days prior to start date). A minimum number of students must be registered and meet the prerequisites. No walk-ins are allowed. If less than the minimum number of students is registered, the SCFA will work with the department on conducting the course. The department will be billed for, at least, the minimum number of students. All SCFA policies and course fees apply. The SCFA will provide the lead evaluator or must approve the lead and all evaluators required for the course. The course evaluation may be combined with another at the discretion of the SCFA.
  3. Provide all required facilities to conduct the course, such as a classroom and any SCBAs or other equipment as needed.
- 4. Request Courses** - Courses have been available to local fire departments on a request basis through regional offices since July 1996. Although this method is offered, the SCFA continues to strongly encourage fire departments to take advantage of the courses scheduled in the course catalog. If local needs exceed or significantly differ from those scheduled, the regional offices will make every effort to deliver the requested training to meet the local needs, based on the availability of instructors and funding. First priority is given to Catalog and Training-In-House courses. To receive a requested course, the SCFA requires fire departments to:

1. Submit a written request at least 30 days prior to the requested start date. If the course requested requires a 30-day cutoff date, then a 60-day written notice is required.
2. Once the course is approved, the department must submit student registration forms to the regional office by the deadline (30 days prior to start date). A minimum number of students must be registered and meet the prerequisites. No walk-ins are allowed. If less than the minimum number of students is registered, the SCFA will work with the department on conducting the course. The department will be billed for, at least, the minimum number of students. All SCFA policies and course fees apply. The SCFA will provide the instructor, lead evaluator and/or must approve the lead and all evaluators required for the course. The course evaluation day may be combined with another course evaluation at the discretion of the SCFA.
3. Provide all required facilities to conduct the course, such as a classroom and any SCBAs or other equipment as needed for the course.

This scheduling option does not replace the existing delivery methods of Catalog and Training-In-House courses. Standard registration fees will be assessed for all courses as listed in the catalog.

Note: If the department has an instructor in its department certified to teach the requested course, the SCFA will probably require this to be conducted as a Training-In-House course, and the local instructor must teach the course.

**5. Instructor Courses** - These courses include instructor training and certification courses, professional skills development and Instructor Orientation Workshops (IOW). They may be scheduled in the field or as a resident program. Pre-registration is required, and no walk-ins are allowed.

#### **4.0 SCOPE AND RESPONSIBILITIES**

All fire departments, students, instructors and anyone on the premises of the Division of Fire and Life Safety or in a SCFA course are responsible for complying with these guidelines.

For student and site safety and security, video surveillance cameras and recording listening devices are utilized around the site. Please report any suspicious activity to a SCFA staff member or the security officer after normal business hours.

#### **5.0 Guidelines**

##### **5.1 Student Eligibility**

1. To participate in SCFA training, students must be at least 18 years old and a member of a career or volunteer fire department or other public emergency response agency, except as allowed per items 2 and 3 below. Priority is given to members of a S.C. fire department and other in-state public safety agencies. Private sector students, out-of-state students, and others meeting all prerequisites may be accepted after the course cutoff date when eligible S.C. applicants must have been registered, contingent upon payment of appropriate course fees which must be paid during registration. The SCFA does not bill for out-of-state or non-fire department personnel.

2. The SCFA offers a “Learning for Life” exploring program for 16 and 17 year olds designed for members of a Boy Scouts of America Exploring Post. For specifics, visit the SCFA website and review AG-007 “Learning for Life” exploring program. An Explorer can attend the 1152 course and 21 other courses as listed in the guidelines. To register for applicable courses, an Exploring Registration Form (see AG-007) must be submitted.

3. The SCFA offers an “Open Enrollment” program for non-fire or emergency service persons. This program provides basic required courses to meet the overall objectives of NFPA 1001 Firefighter I and II certification

as well as the courses accepted by the S.C. State Technical College system. Visit the SCFA website and review AP-033 Open Enrollment guidelines for details. To register as an “Open Enrollment” student, an Open Enrollment Registration Form (AP-033) must be completed. Students must pay course fees at the time of registration.

4. Before the student is eligible to register, course prerequisites are listed and must be met. Students may not apply for the prerequisite and the course requiring the prerequisite at the same time. Before submitting the registration, the fire chief must ensure each student has successfully completed the necessary prerequisites. If a student completes a course and prerequisites have not been met, even if the SCFA registered the student in error, credit will not be awarded for the program. Once a student completes the prerequisite, the course may be repeated.

No Shows: Applicants who fail to attend a course without first notifying SCFA are considered a “no show.” All paid fees will be forfeited. Additionally, the student may be penalized regarding future applications.

## **5.2 Physical Requirements**

Firefighting training requires considerable physical exertion, exposure to high temperature and humidity levels, toxic and smoky atmospheres. It may require working at heights and in confined spaces. Many SCFA courses involve physical training in these activities. Participation may cause elevated body temperature, increased pulse, respiration and blood pressure, and may cause mental stress and affect the ability to react quickly to emergency situations. Persons with known heart or lung disease, hypertension, pregnancy or other conditions that may put them at increased risk of injury or illness are advised and required by OSHA to be medically cleared before participating in any of these activities. Students attending SCFA training must be physically capable of performing fire service training tasks. Physical capability is the ability to actively participate in the strenuous tasks often associated with fire service duties.

Some SCFA courses are classroom only and have no physical requirements. Refer to the course description or contact the SCFA for more specific information on course content.

## **5.3 Registration for Courses**

Pre-registration is required for all courses. “Walk-ins” are not allowed. Registration forms are in the catalog or on the SCFA’s website and must be fully completed. For a catalog course, the registration must be received by the SCFA (main office) by the 30-day course cutoff date before the start date of the course. Registrations must be mailed, e-mailed or sent via fax to SCFA. The registration form must be accompanied by the registration fee, purchase order number or VISA or Master Card number. Personal checks are not accepted. Incomplete forms or forms received without the registration fee/ payment arrangements or not meeting the prerequisite will be returned unprocessed. Course enrollment is reviewed at the course cutoff date. Courses with fewer than the minimum students may be canceled. After the 30-day course cutoff date, students will be notified if the course is to be held and if they have been accepted.

“Training-in-House” and “Request Course” registrations must be sent to the appropriate regional office using the guidelines as a catalog course listed above.

Registration forms require the signature of the fire chief or designee from the department before it will be accepted and processed by the SCFA. Registration for the 1151 Firefighter Candidate School is outlined in section 5.10.20

A student will be placed on the class roster only after receipt of an original completed application and the correct payment, purchase order or VISA or Master Card for payment. Multiple students from one department registering for the same course delivery may use the same purchase order or VISA/Master Card. All purchase orders must include the purchase order number, contact name, phone number, the FDID number, billing address, student's name and social security number, the course code and section number.

All registrations are on a first-come, first-served basis. Early registration is the best way to gain acceptance into a course. Completed catalog course registration forms may be emailed to Gloria Evans at [evansg@llr.sc.gov](mailto:evansg@llr.sc.gov) or sent via mail/fax to:

Registrar  
South Carolina SCFA  
141 Monticello Trail  
Columbia, SC 29203  
(803) 896-9856 FAX

Registration and eligibility policies do not apply to courses taken through the SCFA Industrial Fire Training Program. Contact the SCFA for specific policies regarding industrial students.

#### **5.4 Course Fees and Policies**

1. **Student Fees and Billing** - All courses are supplemented by SCFA funds. Course fees are listed for each course in the Public Fire Service Curriculum Catalog. The SCFA prefers that a fire department send an official check with the registration. A second option is to have the fire department provide a Visa or Master Card number, which will be billed once the course is confirmed. If a fire department sends a purchase order, the department will be billed once the course is confirmed. However, no certificates will be sent until the bill is paid. Fees for the 1151 Fire fighter Candidate School must be paid in advance in accordance with AG-005. If a fire department has not paid its bill within 120 days, it is considered past due. Until the bill is paid in full that department will be prohibited from registering students. If a student does receive a certificate and the course fee is not paid within 120 days of the billing date, the certificate will be revoked and course credit removed from the student's transcript. Once the bill is paid, an additional \$5 administrative fee must be paid before the course credit will be returned to the student's transcript. The SCFA only collects fees from the student's fire department. Refunds will be processed in accordance with agency policy. Open Enrollment course fees are listed in AP-033 and must be paid at time of registration.
2. **Student Cancellations** - For all SCFA courses, cancellation requests must be received prior to the course start date to prevent billing or to receive a refund. Notice of cancellation should include the course name, course code, section number, delivery date and the name of the student to be canceled. Requests may be made either by phone or Fax. To cancel by phone, call the SCFA Cancellation Hot line at (803) 896-9804 and leave a voice mail message concerning the cancellation. For FREE courses, please notify the SCFA of any cancellation even up to the day before a class begins, so an attempt to find a replacement student can be made. There is a waiting list for many of the free courses. Students who habitually cancel out of courses may be penalized in future applications.
3. **Student "No Shows"** - Applicants who fail to attend a course without notifying the SCFA prior to the start date are considered "No Shows." The department will forfeit any fees it has paid or will be billed the applicable course fee, and the student may be penalized in future applications.
4. **Student Substitution** - Any change to student registration should be made by the fire chief or his/her designee by submitting a completed registration form for the new student, along with a written request for substitution prior to the class starting. Mail or send by Fax to (803) 896-9856.

5. **Out-of-State Fees** - Out-of-state, military or other non-South Carolina public fire service personnel who wish to attend SCFA training programs should contact the SCFA for specific fee information. Fees must be paid in advance as part of the registration process.
6. **Grant Fees** - If a fire department receives grant money to pay for training, the grant fee as listed in the catalog is applicable. The SCFA does not use state funds to underwrite training for those departments who have grant funds for training.
7. **Data Privacy Warning** - Your social security number is classified as private data. The use of a student's social security number is only for tracking purposes and to provide an accurate student transcript of completed courses. This is in compliance with the Federal Privacy Act.

### **5.5 Registration Agreement and Waiver / Liability Release**

1. In consideration for participating in SCFA training, I hereby release, indemnify, and covenant not to sue the SCFA, South Carolina Department of Labor, Licensing and Regulation, the State of South Carolina, their officers, agents or employees (Releases) 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 Releases. 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.
2. I certify that the information on this registration form is correct. I agree to abide by the rules, policies and regulations of the SCFA. I understand that falsifying information or violating rules or procedures may result in me being denied admission to the course, being dismissed from the course, and/or loss of course credit.
3. I authorize the release of any information concerning my enrollment and completion of all SCFA courses to me, my fire chief or my department training officer.
4. I understand that the SCFA is not authorized to provide travel, medical or 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 that I may incur as a result of my participation in this program.
5. I understand that 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 that 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.
6. In signing this release, I acknowledge that I have read and understand the Release and that 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. The Exploring and Open Enrollment courses have limited conditions of age and organizational membership.
7. By registering for this course, I hereby give the SCFA permission to reproduce and publish my name and/or photographic likeness.

### **5.6 Completion Criteria and Student Award Policy**

1. For satisfactory completion, all courses and seminars require appropriate attendance and participation. See 5.10.2 related to attendance. Final completion of a course will be made once course fees are paid. It is the responsibility of the fire chief to ensure the student has successfully completed the prerequisite course before submitting the registration. If a student completes a course, even if the SCFA made an error and registered them for the course and they do not meet the prerequisites, no credit will be awarded for the program. They must repeat the course once they complete the prerequisite.

2. Courses that include a written exam and/or practical evaluation require a passing test score for award of certificates. Students who complete the course with an overall average of 70 percent or higher and satisfactorily complete all physical and practical exercises will receive a certificate indicating successful completion. Instructor Orientation Workshops (IOWs) have their own specific requirements as outlined in the Public Fire Service Curriculum Catalog. The I151 course has specific requirements as outlined in AG-005.
3. Student certificates will be mailed once course fees are paid. If a student does receive a certificate and the course fee is not paid within 120 days of the billing date, the certificate will be revoked and course credit removed from the student's transcript. Once the bill is paid, an additional \$5 administrative fee must be paid before the course credit will be returned to the student's transcript. Certificates are mailed within 30 days after the course fee is paid.
4. Students who receive an "Incomplete" grade for a training course must complete the course requirements within 180 days of the course end date in order to receive course credit. Otherwise, the grade will become a "Not Complete," (NC), and the student will be required to repeat the entire program to receive credit.
5. Students who fail any type of written or practical skill test required for successful course credit are eligible to apply for retesting. Such retesting must be completed after at least 30 days from the original test date, no later than 180 days from the original test date.
6. The 30 day wait period may be waived for tests conducted within a course delivery when such a delay could adversely affect a student's ability to continue in a course. A student in a recruit school is an example of the above. Any retest under these circumstances is conducted at a time convenient with the course schedule but before the end of the course.

If you have a question about a certificate, call (803) 896-9857. If a student fails to receive a certificate within 30 days of the course fee being paid, the SCFA will mail the student a duplicate certificate at no charge providing the request is received within 90 days of the course fee being paid. Requests for duplicate certificates received after the 90 days will require a \$5 per certificate administrative fee.

To assist in the correct delivery of awards, students should accurately complete all sections, including the mailing address, of the registration form. The address on this form will be used for mailing and is the method by which students are contacted.

### 5.7 Equivalency/Reciprocity

The SCFA offers equivalency in certain occupational areas for certifications achieved through other fire training agencies. This program is available only to current, active members of South Carolina fire departments. To be eligible for equivalency, the certification must be in one of the 16 accredited occupational levels offered by the SCFA.

1. **Equivalency** - The awarding of program credit (e.g. Firefighter I) to individuals certified or trained at an occupational level to a national standard by an entity not accredited by IFSAC. In order to receive transcript credit and certification to one of these levels, an applicant, upon approval by the Certification and Accreditation Supervisor, must challenge the written examination for that level. In some cases skills testing may also be required. The SCFA does not offer equivalency at the course or subject level.
2. **Reciprocity** - The awarding of certification, without any required testing, to those individuals who have been certified at an occupational level by an IFSAC accredited entity. The certification must be in one of the occupational levels offered by the SCFA. If eligible for reciprocity/equivalency consideration, contact the Certification and Accreditation supervisor at (803) 896-9881 for more information. Be prepared to provide the following information:
  1. Letter from issuing fire training agency that states its training meets the applicable national standard and how the course was evaluated in detail.
  2. Attendance documentation to verify attendance at least 80 percent of the course.

3. A detailed course outline with objectives covered and how each objective was evaluated. (written or practical, team or individual)
4. For agencies not fire service oriented, information on instructor credentials is also required.

## 5.8 Cafeteria Information

1. The cafeteria is normally open weekdays for breakfast and lunch based on course demand. Depending on the course, breakfast, lunch and lodging may be included in the course registration fee. The cafeteria does not serve dinner. The evening meal is the responsibility of the student.

## 5.9 Dormitory Information

1. Dormitory accommodations are available on the SCFA grounds on a first-come, first-served basis only for students enrolled in a SCFA course. Rooms are semiprivate with two students assigned to each room. The fee is \$15 per person per night. A single occupancy room may be available on a space available basis, and the fee is \$30 per night. All rooms have a private bathroom, television, telephone and alarm clock radio. Bed linens and bath towels are also provided. In addition, a weight training room and pool table are available for student use. The dormitory has a central smoke detection and fire alarm system and is protected by a fire sprinkler system.
2. **Registration/Check-in** - students must request a dorm room on the registration form, listing arrival and departure dates. For regional burn evaluations on site, the regional coordinator will arrange in advance for dorm rooms requested. Persons registered as an Explorer (minors) are **not** allowed to stay in the dorm. Additional nights of lodging may be available on a first-come, first-serve basis for early arrivals or late departures, but must be requested in advance. Dorm check-in is normally done during lunch on the first day of class in room 113. Some courses may allow dorm check-in at the course classroom. Students who request dorm check-in the day/night before the class begins or after normal business hours (8:30 a.m. to 5 p.m.) or on weekends will be checked in by security. Students who do not request a dorm room with their registrations should not come to the SCFA after normal business hours or on weekends asking for a room. If, on the first day, a student needs a dorm room but has not requested it on the registration form, the SCFA will try to accommodate the request.

### **NOTE:**

**After normal business hours, the site security officer is responsible for the safety, conduct and security of dorm occupants and will be available to assist students. Contact security at (803)896-9883 or by cell phone (803)530-6572 or go to the main entrance guard house.**

3. **Checkout** - Students must check out of their dorms by 8:30 a.m. on the last day of class, unless special arrangements have been made. This will usually require paying for another night in the dorm. Room keys must be deposited in the key drop box located outside the dorm office by 8:30 a.m.. A lost key requires a \$20 key replacement fee. Failure to return a room key before class or using the room after the 8:30 a.m. checkout time will result in an additional one-night dorm room charge. Shower facilities with towels are available in the Student Processing Building (9C) for use after the last day of class.
4. **Dormitory Rules and Guideline** - Failure to follow the dorm rules listed below may result in a student being discharged from the dorm and forfeiture of dormitory privileges:
  - a. Use of tobacco products is prohibited in dorm rooms and inside all state buildings and vehicles. Smoking is allowed outside in designated areas. Students smoking in dorm rooms will be charged a \$50 cleaning fee and will not receive course credit until the fee is paid. Tobacco products must be disposed of in approved waste containers provided.
  - b. No alcoholic beverages are allowed in the dorm or on state owned property.
  - c. All dormitory rooms are subject to inspection and/or search if violations of rules are suspected. Check-

ing into the dorm will be construed as implied consent to all investigations and searches. These investigations and searches will be conducted by proper authorities.

- d. Dormitory furnishings are the property of the State of South Carolina. Rooms are inspected prior to student arrival and upon student departure. Any damaged or missing property will be charged to the organization that registered the student and is responsible for the student.
- e. All dorm residents must conduct themselves in a professional and courteous manner at all times, taking care that their activities do not interfere with the study or sleep of other residents, especially after 10 p.m.
- f. All students will share in keeping dorm rooms, the buildings and the campus neat and tidy, as directed. Personal items will be neatly stored daily. Checkout is by 8:30 a.m. the last day of class, and room keys must be deposited in the key drop box located at the check-in office at that time.
- g. The dormitory is closed during class hours, with the exception of lunch time. If a student needs to return to a dorm room during class hours, permission must be granted by the course instructor.
- h. No room will be shared by male and female students except in the case of married students. Married students should make note on the registration form when requesting a dorm room and check with the dorm coordinator.
- i. Tampering with or damaging fire extinguishers, fire detectors or fire sprinklers is a serious offense and will result in dismissal from the course, removal from the dormitory and may result in criminal prosecution. The student's fire department will be billed for repairs or replacement.

### 5.10 Student Rules and Procedures

Students are expected to abide by the rules and procedures listed below. These rules and procedures apply to anyone attending SCFA courses through any method of delivery, resident or field. Students should become familiar with them before attending SCFA training. Failure to follow SCFA rules and guidelines could result in a student being dismissed from the course or the course certification being revoked, and the student may be penalized in future applications.

1. **Safety** – Student and staff safety is of the up most importance. A student is responsible for his safety. Safety requirements will be reviewed at the start of every course and are outlined in SP-001.
2. **Class Attendance and Schedule** - Students are required to attend the first course session. Students should strive to attend 100 percent of a course to ensure they get adequate training. SCFA courses one-day or less require 100 percent participation with a 30-minute grace period allowed for tardiness with a valid excuse. If the student is not present at the end of a one-day or shorter course, no credit will be awarded. For all other SCFA courses, minimum attendance is 80 percent. Any absence may require a written excuse from a fire department chief officer (sickness, work schedule or family emergency). The student must be present for all “Practical Skills Development” sessions, however for a valid reason approved in advance by the instructor, alternate arrangements may be made. Resident course times are normally 8:30 a.m. to 5 p.m. unless otherwise listed. A course may be longer than the scheduled end time, if needed to meet course objectives and student needs. Hours for field courses may vary and may change from the course catalog. Carefully read the confirmation card for course information or check with the course instructor for details. Special night and weekend evolutions may be scheduled in some courses. Special seminars and special weekend courses may have separate attendance requirements.
3. **Tardiness** - Students are required to be punctual for all classes, training and activities. Classes will begin promptly at the scheduled time, unless specific alternate instructions are given. Late arrivals could be dismissed from the course without valid reasons verified and approved by the department chief or training officer. Habitual tardiness could lead to dismissal from the course.
4. **Absences** – Students should strive for 100 percent attendance. Unless special permission is received from the instructor, students are not permitted to leave SCFA courses during training hours. Failure to comply will result in an un-excused absence and possible dismissal. Most courses have a 10-minute break every

hour, so leaving the class for any reason, including to take a cell phone call, is considered an absence and will be recorded as such. Emergency leave may be allowed for legitimate reasons. Students are responsible for missed sessions. Make up of some sections for some courses, and in particular “Practical Skills Development”, may not be available until the next scheduled course, and the student’s record will indicate an “INCOMPLETE.” An “INCOMPLETE” can only be awarded for a valid reason when requested by the student in writing with approval of his/her chief or training officer and is only applicable for courses that are more than 24 hours, and the student must complete at least 60 percent of the course.

5. **Withdrawals** - Should it become necessary for a student to withdraw from a course, the course instructor must be notified. All equipment and supplies issued to the student must be returned before leaving class. No course refund will be made once the student begins the courses. If the minimum course attendance has been met, the student can make a written request with approval of the chief for an “Incomplete” if not he/she must repeat the entire course.
6. **Dress Code** - Students should wear department uniforms or normal work attire. Students are required to wear shirts with sleeves in public areas and all SCFA buildings. Shorts are prohibited in all classrooms and administration buildings on site. Shorts may be worn in a Regional Office when part of an official uniform. Shorts may be worn in the dorm area and on the SCFA grounds after normal business hours or if part of a specific course physical fitness requirement. Long pants, shirt with sleeves and socks are required to be worn under protective equipment for any evolution requiring PPE for both resident and off site courses. Appropriate work shoes are required. Any clothing found to be offensive by SCFA management will not be allowed. Jewelry that may interfere with proper use of PPE or may cause a safety concern as determined by SCFA management may be required to be removed to allow participation in the course.
7. **Releasing Scores or Transcripts** - Test scores, training records and student transcripts will be released only to the student, the student’s fire chief or the department training officer. Because students are not minors, records will not be provided to parents or guardians. Requests for the release of information must be made in writing using a Transcript Request Form (Attachment 6.3). All information must be provided, and the form must be signed. If the transcript is to be sent to someone other than the student, the full name and address of the recipient must be included. Student transcript information may not be sent by Fax, and no information will be given over the telephone. A \$3 administrative fee will be charged for each transcript, and payment must accompany the request. Please send check or money order, no cash.
8. **Equipment, Facilities and Parking** - Students must park only in designated areas, observe all posted signs, and avoid any abuse of the SCFA’s or fire department’s equipment or facilities. Students are responsible for the proper care and return of all SCFA-issued equipment and/or supplies. Intentionally damaging SCFA property or equipment may result in disciplinary action up to and including dismissal from the course, and the student’s organization will be billed for all costs associated with the damages. For course taught at a fire department, all persons must comply with SCFA guidelines and the host department’s rules and guidelines.
9. **Cheating** - Any student cheating during training or testing will be immediately dismissed and will receive a zero (0) on the exam and will not be allowed to retest. A cheating violation could jeopardize future enrollment in SCFA courses. No course fee refunds will be made.
10. **Falsification** of documents, registrations forms, certificates or records will result in disciplinary action and could result in loss of course certification and could jeopardize future enrollment in SCFA courses. No course fee refunds will be made.
11. **Electronic Devices** - There shall be no cell phones or any electronic device capable of transmitting photographs or video footage in the personal possession of any student or instructor during the delivery of any training, testing or evaluating conducted by SCFA. Certain designated personnel, such as lead evaluators, lead instructors, and full-time SCFA staff members will be allowed an exception to this rule for safety and operational requirements. All such devices must be removed by the individual prior to entering the training location. The SCFA assumes no responsibility for these items when stored. This ban on personal

possession of these devices includes both classroom and field activities. Violators will be asked to secure the item or to leave the training location. In addition, violators during written test sessions will receive a zero (0) grade on the exam and will not be allowed to retake. Personal computers are allowed at the SCFA in the dormitory, cafeteria and classrooms when required.

- 12. Illness or Injury** - Ill or injured students must report immediately to the instructor. Students are expected to be covered by the agency they represent with Worker's Compensation insurance or similar coverage. The SCFA DOES NOT provide Worker's Compensation or medical insurance coverage for students and assumes no liability or responsibility for illness or injury experienced while attending or participating in SCFA programs. An injury report must be filed.
- 13. Use of Tobacco** - The SCFA prohibits the use of any tobacco products inside all buildings and SCFA vehicles on campus. Designated smoking areas are provided. Use of tobacco products during training evolutions is limited to scheduled breaks. Keep the site clean by disposing of tobacco products in appropriate waste containers. Throwing tobacco products on the ground is littering and is unacceptable.
- 14. Weapons and Explosives** - Weapons of any type and/or explosives are prohibited on SCFA grounds except as may be specifically required to conduct official training. This includes, but is not limited to, firearms, ammunition, bows, arrows, knives with a blade longer than four inches, blasting agents and/or fireworks. Any student found displaying and/or carrying any type of contraband will be subject to immediate dismissal.
- 15. Use of Alcohol, Drugs, Narcotics or Prohibited Substances – Zero Tolerance Policy** - The use and/or possession of alcoholic beverages, illegal drugs/narcotics or non prescribed prescription drugs is prohibited on SCFA grounds or any facility supervised by SCFA staff. Students may not participate in SCFA training while under the influence of alcohol, legal or illegal drugs. ***Possession of, or use of, alcohol by a student under the age of 21 is a criminal offense and may be prosecuted accordingly.*** Students in the 1151 course are required to stay on site, but are allowed to leave site at the end of each day's class. Students are subject to call out for simulated emergency response exercises anytime after curfew. Therefore, students are prohibited from off-campus consumption of alcohol during the course. If any student is suspected of consuming alcohol or drugs/narcotics on or off campus or appears to be under the influence may be required to submit to an appropriate test at his/her own expense. Refusal to test will result in automatic dismissal from the program. If the test confirms a level of impairment or intoxication, the student is in violation of the SCFA Zero Tolerance Policy and will be dismissed from the program. A positive test of illegal drugs or prescription drugs without an authorized prescription will result in dismissal from the program. The fire chief will be notified of the dismissal. Any student on a SCFA site or in a SCFA course who is impaired by alcohol, drugs or medication or illegal drugs and who cannot function or behave properly or professionally is subject to disciplinary action up to and including dismissal. If a student is taking prescription medication that may impair his/her ability he or she must inform SCFA staff in advance. If it is determined that the medication may cause impairment, or create a detrimental environment to the students or others, the student will be dismissed from the course until able to perform properly. If necessary, an impaired student may be transferred to an appropriate medical facility, or referred to a local law enforcement authority. A student may be offered a dorm room and permitted to stay until the next day, if safe transportation for departure is not readily available.
- 16. Personal Items** - The SCFA assumes no liability or responsibility for loss, theft or damage of personal property while participating in or attending SCFA training or staying in the dorm. This includes student's PPE, vehicles, valuables, money and any equipment in or on the vehicle. Vehicles should be locked when not in use, and all personnel equipment or belongings should be stored and secured properly.
- 17. Personal Hygiene and Grooming** - Students are expected to maintain personal hygiene and acceptable appearance. A student who has hair (stubble, mustache, sideburns, beard, bangs or low hairline), jewelry or other impediment in the seal area of an SCBA face piece, will not be permitted to wear an SCBA in SCFA courses requiring breathing protection. SCBA participation may be required for successful course completion. Passing a booth test with a beard is not allowed by OSHA as meeting the SCBA wearers' requirement.

- 18. Oral Testing** - The SCFA provides oral testing ONLY as a reasonable accommodation for students who qualify under Americans with Disability Act. To apply for the accommodation, a student must submit a written request to the regional coordinator, accompanied by documentation from a professional with an appropriate license to make diagnosis and to recommend reasonable accommodation. In order to assure that accommodation will be available in a timely fashion, the SCFA asks that the request be filed with the regional coordinator at the time of application for a course and no later than the mid-point of the course. When oral testing is approved, the regional coordinator will set the time and place for exam administration. [NOTE: oral examinations may not be reasonable for Hazardous Materials courses where the student must demonstrate the ability to locate and use appropriate sections of the *DOT Emergency Response Guidebook*.]
- 19. Site Housekeeping** - Students are also required to maintain classroom cleanliness. Each student is responsible for the removal of trash from the area and the alignment of the nameplate, books and chair each day. Students are responsible for cleaning all vehicles, equipment and tools used during training and returning them to the normal storage area.
- 20. I151 Firefighter Candidate School** - The I151 Firefighter Candidate School is the SCFA's flagship course. This is an intense eight-week course and meets NFPA Professional Qualifications for Firefighter I, Firefighter II, Hazardous Materials Awareness and Hazardous Materials Operations. The I151 course is only conducted on site. It includes eight written tests and nine practical skills test, physical fitness, field and class participation, homework, established work relationships with other students and instructors, cleaning facilities, tools and equipment and curfew restrictions. Students are required to live on the site, and part of the course includes living together in a fire station-like environment. This course requires after-hours homework, study group activities, review of materials, watching videos/CDs related to the course material and after-hours emergency drills to give them real life emergency situations. Upon successful completion of the Firefighter Candidate School, the student will be awarded South Carolina certification for Firefighter I, Firefighter II, Hazardous Materials Awareness and Hazardous Materials Operations as recognized by IFSAC. Visit the Web site [www.scfa.state.sc.us](http://www.scfa.state.sc.us) and review AG-005, our I151 Firefighter Candidate School guidelines that outlines all details associated with this course, including registration and fees.
- 21. Student Conduct** - SCFA administration will review all infractions committed by students. These include: violations of law; gambling or possession of illegal substances; disorderly student conduct; racial or sexual slurs or harassment; profane, obscene or vulgar language; damage to property; 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 disciplinary actions up to dismissal.
- 22. Student Appeals Procedures** - Appeals should be made in writing to a SCFA staff member, who will review the appeal and take appropriate action. Written appeal of the decision can be filed with the section manager for review. Any further appeal is filed with the SCFA superintendent whose decision is final.
- 23. Visitors** - Except persons on official business, those visiting the Firefighter Memorial Garden or the cafeteria, visitors are not allowed in SCFA courses or on the SCFA site, Only authorized personnel and registered students are allowed past the cafeteria. All other visitors must register at the SCFA administration building and be approved to visit. This applies to all SCFA field courses. This also applies to the credentialed media on-site and for local courses, it is up to the local fire chief to approve credentialed media.



The Fire Academy offers several core courses at a reduced cost of \$5 to career and volunteer fire service personnel. The courses currently covered are:

- 1152 - Fundamentals of Firefighting
- 1153 - Firefighter I
- 1154 - Firefighter II
- 1210 - Emergency Vehicle Driver Training
- 1220 - Pump Operations I
- 1221 - Pump Operations II
- 2118 - Preparation for Initial Company Operations
- 2119 - Strategy and Tactics for Initial Company Operations
- 2121 - Decision Making for Initial Company Operations
- 2147 - NIMS ICS for the Fire Service
- 2150 - Incident Safety Officer
- 2151 - Health & Safety Officer
- 2153 - I-300 Intermediate ICS
- 2154 - I-400 Advanced ICS
- 2100 - Fire Officer I
- 2102 - Fire Officer II
- 2121 - Decision Making for Initial Company Operations
- 2722 - Hazardous Materials Operations
- 4171 - Fire Instructor I
- 4172 - Fire Instructor II

Students are required to wear NFPA-compliant protective clothing for designated evolutions. In such cases, students shall not wear any fully synthetic fiber clothing under their protective clothing. While nomex or other fire-resistant fabrics are not required, garments should provide the highest level of thermal protection possible. Natural fibers, such as cotton or wool, should be a minimum standard. For all live fire evolutions, full-length pants are required and long sleeve shirts are recommended. Protective clothing and equipment is available for rent from the Fire Academy for a fee of \$65 per student per course. A wide range of sizes are available, with coats from 36 through 54, pants from 30 through 48 waist, and boots sized 6 through 14 for both men and women. Clothing is cleaned and sanitized after each course. Rental must be requested and arranged in advance and will be provided, if available.

# Firefighting Curriculum

To successfully complete any Fire Academy course requiring SCBA, the student must be clean shaven in the seal area of the face piece. It is also the department's responsibility to provide NFPA-compliant PPE and breathing apparatus if applicable.

## 1135 STRUCTURAL BURN REFRESHER

Students will meet the OSHA requirements for a fire department's annual basic interior live fire training. A variety of scenarios are possible using the Fire Academy props. Students will participate as members of different teams and will have to complete different tasks. This course is not mandated, but it is recommended. Completion status will be determined based on performance during the practical evolutions.

Prerequisite: 1122, 1131 or 1152 or 1153 or 4501

Hours: 8

Students: Min: 15 Max: 20

Resident Fee: \$25

Off site Fee: Call for pricing

## 1136 FLAMMABLE LIQUIDS/ GAS FIREFIGHTING

This course is designed to be a basic course in flammable liquids / gas firefighting. Subjects include basic theory, foam application and valve manipulation, tactics and strategy. This course is ideal for those student who have completed Firefighter I and II or plan to do so in the future.

Prerequisite: 1152 or 1121 or 1153 or 4501

Hours: 8

Students: Min: 15 Max: 20

Resident Fee: \$31 (lunch Included)

Off site Fee: Off-site delivery at approved facilities; contact regional office for pricing and details.

Grant fee: \$120 / student



# Firefighting Curriculum

## **1137 FLAMMABLE/COMBUSTIBLE LIQUID FIREFIGHTING**

This resident course uses Fire Academy props to train students to fight flammable/combustible liquid fires utilizing various extinguishing agents including water, dry chemicals and foam. Fuel characteristics, containers types and operational guidelines are covered. Full personal protective equipment (PPE) is required to be provided by the student. The Fire Academy will provide SCBAs.

Prerequisite: 1121 or 1152

Hours: 8

Students: Min: 15 Max: 25

Resident Fee: \$41 (Includes lunch): in-state - \$226, in-state military; \$251 out-of-state

Note: On-campus delivery only

## **1138 PRESSURIZED/COMPRESSED GAS FIREFIGHTING**

This resident course will familiarize the student with the nature and effects of flammable gas fires. Container types, fuel and container characteristics, valve manipulation and terminology are covered, as are tactics and methods of fire control. Full personal protective equipment (PPE) is required to be provided by the student.

Prerequisite: 1121 or 1152

Hours: 6

Students: Min: 15 Max: 20

Resident Fee: \$31 (Includes lunch), \$25 off-site; Training-in-House with prop, requester pickup \$15, without prop \$10; \$226 in-state military; \$251 out-of-state.

Note: Host department must furnish LP Gas for mobile prop.

## **1139 RESCUING THE RESCUER**

This 20-hour course addresses a number of pressing issues facing today's firefighter. It provides the basic knowledge and skills needed to identify when to call a "Mayday," initiate self-rescue, and/or rescue a fellow firefighter. The course includes a review of case studies, statistical data, the impact of rescuing a downed firefighter, and the National Fire Academy's "Calling the Mayday" program. The primary focus is to reduce putting ourselves in these situations, and when it happens, what we need to undertake to survive.

Prerequisite: 1121 or 1152 or 1153 or 4501

Hours: 20

Students: Min: 15 Max: 20

Resident Fee: \$25 (Meals and dorm extra)

# Firefighting Curriculum

## 1140 RAPID INTERVENTION CREW (RIC)

This course allows students to apply their knowledge and skills from course 1139 Rescuing the Rescuer. The classroom portion covers legal aspects, events requiring RIC, personnel requirements, deployment consideration and command responsibilities. Tool and equipment considerations for RIC will also be covered. Practical evolutions will be scenario driven. Students are encouraged to bring any personal equipment they would normally carry as a member of a rapid intervention crew.

Prerequisite: 1139

Hours: 16

Students: Min: 15 Max: 20

Resident Fee: \$25 (meals and dorms extra)

Off-Site Fee: Call for pricing - approved training facility must be provided.

## 1151 FIREFIGHTER CANDIDATE SCHOOL

This program will take the student from recruit level through certification at the NFPA 1001 - Firefighter II level. This eight-week program covers all aspects of firefighting, including: fire behavior, protective equipment, hose, ventilation, salvage and overhaul and fire attack. It includes CPR and first aid, incident command, haz-mat operations and auto extrication. Physical training is part of the program. Students will be housed at the Fire Academy fire station and will perform standard station duties. Upon successful completion of this program, the student will be a certified Firefighter II by IFSAC and medical first responder and will be qualified at the OSHA haz-mat operations level. Fee includes housing, breakfast and lunch. Visit our Web site at [www.scfa.state.sc.us](http://www.scfa.state.sc.us) to reference the Firefighter Candidate School policy AG-005 for more details.

Prerequisite: none

Hours: 320

Students: Min: 14 Max: 25

Resident Fee: \$880 in-state (includes two meals daily and housing over eight weeks)

Grant fee, open enrollment fee, in-state military: \$2,680 (includes two meals daily and housing over eight weeks), Out-of-state, out-of-state military: \$3,075, Out-of-country: \$3,665

Note: On-campus delivery only

## 1152 FUNDAMENTALS OF FIREFIGHTING

This course is designed to help fire departments meet the fundamentals of firefighting. The course covers fire ground skills including, fire behavior, fire extinguishers, personal protective equipment, SCBA, ladders, fire hose, fire streams, search and rescue and interior fire attack. Successful completion of written and practical skills testing is required. Please note: Additional training may be required by the Authority Having Jurisdiction (AHJ) to meet the department's minimum requirements.

This course is the first step to being qualified as a firefighter in South Carolina. This course **DOES NOT** qualify an individual to make entry into an IDLH environment at a fire scene. Fire service personnel should pursue the additional courses to complete the Firefighter I standard.

Prerequisite: None

Hours: 90

Students: Min: 12 Max: 20

Fee: \$5

Grant fee: \$900 each

## 1153 NFPA FIREFIGHTER I

This course is designed to take the student to the first level of firefighter as recognized by the National Fire Protection Association (NFPA) and the International Fire Service Accreditation Congress (IFSAC). Subjects include: building construction, ropes and knots, forcible entry, ventilation, water supply, salvage, overhaul, communications, fire prevention and public fire education. Upon successful completion of written and skills testing, the firefighter will receive international recognition as a Firefighter I by IFSAC.

Prerequisite: 1152, First Aid and CPR, 2728 or comparable operations level training or 4506 (Challenge Exam)

Hours: 65

Students: Min: 12 Max: 20

Fee: \$5

Grant fee: \$650 each



# Firefighting Curriculum

## 1154 NFPA FIREFIGHTER II

This course is designed to take the student to the final level of firefighter as recognized by the National Fire Protection Association (NFPA) and the International Fire Service Accreditation Congress (IFSAC). Subjects include: incident management, building collapse and special rescue, hose tools and appliances, hydrant flow and operability, fire detection and alarm systems, fire cause, pre-incident planning, reports and communications and coordinating fire attack. Upon successful completion of written and skills testing, the firefighter will receive international recognition as a Firefighter II by IFSAC.

Prerequisite: 1153, 4501 (Challenge Exam), 3330 Basic Auto Extrication

Hours: 44

Students: Min: 15 Max: 20

Fee: \$5

Grant fee: \$440 each

## 1160 TRUCK COMPANY AND SUPPORT OPERATIONS

This course covers the operations traditionally assigned to truck companies, but which can and should be done at nearly every structural fire incident by any fire ground company. Topics include the functions usually performed by truck companies, the equipment necessary to perform those functions and operational strategy and tactics, including size-up.

Prerequisite: None

Hours: 16

Students: Min: 15 Max: 20

Fee: \$25, Training-in-House \$5



## 1176 PIPELINE EMERGENCIES

This course is designed for emergency responders from public safety and other safety organizations and will benefit fire and rescue personnel, members of hazardous materials response teams and industrial emergency response teams. Parts of this course will also be of interest to emergency management personnel. This course covers how to respond safely and effectively to pipeline incidents and emergencies. Topics covered include: primary regulations and standards governing operations and design of pipeline systems, common products found in pipelines, along with physical and chemical properties and tactical procedures for pipeline response. Several pipeline response scenarios will be conducted during this course.

Prerequisite: 1121 or 1152 or equivalent training preferred or 4501, but not required

Hours: 12

Students: Min: 15 Max: 30

Fee: \$5

## 1177 RESPONDING TO UTILITY EMERGENCIES

This course provides a “Street Smart Approach” for emergency first responders who must respond to utility emergencies. Topics in this course include: the need for utility company response, most common utility hazards, response issues and the hazards associated with electric and gas generations, transmission and distribution. Several case histories will be reviewed during class.

Prerequisite: 1121 or 1152 or equivalent training preferred or 4501, but not required

Hours: 8

Students: Min: 12 Max: 30

Fee: \$5

## 8118 POSITIVE PRESSURE VENTILATION (PPV)

This course consists of a review of basic ventilation practices, implementation and fire attack considerations. It includes both classroom and field work, consisting of practical skills evolutions and a demonstration using positive pressure ventilation.

Prerequisite: None

Hours: 6

Students: Min: 15 Max: 30

Fee: \$5

Note: The host fire department must furnish at least two PPV fans.

# Firefighting Curriculum

## 8335 INTRODUCTION TO WILDLAND/URBAN INTERFACE FIREFIGHTING

This course provides a basic understanding of the wildland and wildland/urban interface environment in which the structural firefighter may be assigned. In cooperation with the South Carolina Forestry Commission, a section on interfacing with Forestry Commission personnel has been added.

Prerequisite: None

Hours: 16

Students: Min: 12 Max: 30

Fee: \$25



Note: For the 1210, 1220, 1221, 1225 and 1250 courses conducted as a regional delivery, each student's fire department must furnish a pumper and or tanker or aerial apparatus for use during the practical skills development and testing sessions as required. The SCFA will provide all apparatus for courses delivered at the Fire Academy.

Clarification: Please read carefully the prerequisite for the Driver-Operator Curriculum. To register for the 1210 Course, Emergency Vehicle Driver Training, students must submit the following with the registration form:

Option 1: A copy of a **valid** South Carolina **Class E License**, not a permit. A valid Class B CDL or Special Endorsement Program Sticker (received from Department of Motor Vehicles) affixed to the back of a valid **Class D License**.

Option 2: The Fire Academy will also accept, in lieu of the above a letter from the chief of the department on departmental letterhead stating the student has the authorization to attend and drive department vehicles during this class or any Driver – Operator Curriculum Course without one of the above special type licenses listed in option 1. Even with the letter, the student still needs to have a valid South Carolina Class D license or a Class E Permit, and a copy of such must be attached with this letter.

Option 3: The Fire Academy will also accept in lieu of Option 1, the following:

- a. As a listed member of a South Carolina fire department that borders the state of Georgia or North Carolina, the Fire Academy will accept a valid drivers license from the applicable state along with a letter from the chief authorizing them to attend and drive their departmental vehicles during Driver – Operator Curriculum training.
- b. The Fire Academy will also accept an out-of-state driver's license for active duty military personnel when registering. The student must provide proof of active duty status. This could be a copy of a military ID or a letter from their supervisor or military commander. The letter must also state that they have the authorization to drive their departmental vehicles during Driver – Operator Curriculum training.

The Fire Academy will no longer require authorization letters or proof of a valid license for Course 1220, Pump Operations I, Course 1221, Pump Operations II, Course 1225, Fire Department Pumper Testing, or Course 1250, Basic Aerial Operations.

Remember, if you do not furnish a vehicle as stated in the note section below, your department member may not be allowed to drive another department's vehicle because of varying insurance requirements and liability issues. The Fire Academy prerequisite requirement for this course in no way supplements or supersedes the state laws concerning license requirements for driving on a public roadway.

## **1205 PRIVATELY OWNED VEHICLE EMERGENCY RESPONSE**

This course provides information for emergency responders on how state laws affect the operation of their personal vehicles (POV) in South Carolina. The emergency vehicle response course will help the responder understand vehicle dynamics and the importance of operating under an official departmental “POV” emergency response vehicle guideline plan. It is designed to promote awareness of the safe “POV” emergency response with supporting national death and injury data. There is an end-of-course small group activity that will reinforce the knowledge gained in the course.

Prerequisite: None

Hours: 4

Students: Min: 12 Max: 30

Fee: \$5

## **1210 EMERGENCY VEHICLE DRIVER TRAINING**

This course teaches how South Carolina state laws affect emergency vehicle operations, vehicle inspections, vehicle maintenance and the physical limitations and abilities of fire apparatus. This includes vehicle operations and driving in tight tolerance driving maneuvers. Course completion will meet the needs established under NFPA 1002: *Standard for Fire Apparatus Driver/Operator, Professional Qualifications; 2009 Edition*, for vehicle operations.

Prerequisite: The student must submit with his/her registration form a copy of a S.C. Class E Driver’s License or Class B CDL or Special Endorsement sticker affixed to the back of the license or a letter of authorization from the fire chief. The Fire Academy requirements in no way supplement or supersede the South Carolina DOT driver’s licensing requirements.

Hours: 40

Students: Min: 10 Max: 15

Fee: \$5

Grant fee: \$250 each



# Driver Operator Curriculum

## 1220 PUMP OPERATIONS I

This course is a basic pump operations program designed for training new pump operators in the effective use and placement of apparatus at emergency scenes and the operation of the apparatus pumps. Course subjects include water and water supply, hose and nozzle flow rates, theoretical hydraulic calculations, fire ground hydraulics, fire pump theory, and operating apparatus pumps at pressurized and static water sources. The student will participate in classroom and practical skill activities consisting of pump orientation and pump operations, to include single and multiple hose line evolutions at both pressurized and static water sources. Course completion will meet the needs established under NFPA 1002: *Standard for Fire Apparatus Driver/Operator Professional Qualifications; 2009 Edition*, for vehicle operations. A calculator is highly recommended for this program.

Prerequisite: 1210

Hours: 40

Students: Min: 10 Max: 15

Fee: \$5

Grant fee: \$250 each

## 1221 PUMP OPERATIONS II

This course addresses the movement of water in a suburban/rural environment using water supplies that may be available to the driver operator such as water points, draft sites, rivers, creeks and swimming pools. The subjects include relay pumping and the components of a water shuttle operation, to include dump and fill site operations. The class will perform multiple water shuttle operations during this program. The student will participate in relay pumping.

Prerequisite: 1210, 1220

Hours: 16

Students: Min: 10 Max: 20

Fee: \$5

Grant fee: \$160 each

## 1225 FIRE DEPARTMENT PUMPER TESTING

This course trains the student in the various pumper tests recommended by NFPA. Upon completion, the student will be familiar with the history of pumper testing, the current types of tests, calculations needed to properly conduct any of these tests, and the required equipment for conducting the tests. Hands-on skill development in actual pumper testing is included in this course.

Prerequisite: 1220

Hours: 24

Students: Min: 10 Max: 15

Fee: \$25, Training-in-House \$5

# Driver Operator Curriculum

## 1250 BASIC AERIAL OPERATIONS

This course is designed for specific departments with aerial apparatus. Through class and practical activities, students are prepared for enhanced aerial device operation. The course includes aerial types and construction, apparatus positioning and strategies and tactics of operation. Maintenance and testing of aerials will also be covered.



Prerequisite: 1210

Hours: 24

Students: Min: 10 Max: 16

Fee: \$25



# Fire Officer Curriculum

## 2100 FIRE OFFICER I (7 day)

Using a traditional learning approach, this Fire Officer I course offers instructor presentations, class discussions and interactive learning activities to achieve the learning goals of the course. The course addresses the 2009 edition of NFPA 1021: *Standard for Fire Officer Professional Qualifications* and prepares students for the following tasks: supervising personnel, assigning tasks, solving personnel performance problems, applying department policies, working with the local community, ensuring firefighter safety, fire and life safety inspections and performing typical company officer administrative functions. Upon successful completion of the course, the student will receive a Fire Officer I IFSAC accredited certificate. Out-of-class assignments will be necessary to complete the course. Four weeks prior to class startink, the student manual and informational letter with reading assignments will be mailed to registered students.

Prerequisite: NFPA Fire Instructor I, NFPA Firefighter II, 2147 or 2137 or equivalent I-200 training

Recommended Prerequisite: 2118, 2119 and 2121

Hours: 56

Students: Min: 12 Max: 20

Resident Fee: \$5 in-state, \$640 out-of-state (dorm and meals additional)

\$480 in-state military (dorm and meals additional)



# Fire Officer Curriculum

## 2101 FIRE OFFICER I (Blended Learning)

Using a practical blended approach to learning, this Fire Officer I course offers instruction in a highly engaging format. Pre-course assignments introduce the course content. The six online learning modules make use of video, interactive knowledge checks and other types of multi-media to reinforce the content. Access to an online learning management provides a “home base” for students to retrieve reading assignments and supplemental activities, take practice test, chat with other students and receive feedback from the instructor. Live classroom sessions allow for face-to-face interaction with the instructor to help ensure mastery of the skills necessary for taking on a leadership role in today’s fire service. This course addresses the 2009 edition of NFPA 1021: *Standard for Fire Officer Professional Qualifications* and prepares students for the following tasks: supervising personnel, assigning tasks, solving personnel performance problems, applying department policies, working with the local community, ensuring firefighter safety, performing fire and life safety inspections and performing typical company officer administrative functions.

Students must attend an orientation meeting before the pre-course period at which time they will receive their textbooks, assignments and introductory materials. The blended portion of this training includes an eight-week pre-course period, where students complete nine assignments and work through the web-based modules. Allowing students to complete the pre-course work at the station or at home reduces travel cost and allows students to learn at their own pace and receive more individual attention from the instructor. At the completion of the pre-course period, the student must attend a four-day class conducted in a traditional setting, to provide an opportunity for group discussion, chapter reviews, additional assignments, multimedia activities and IFSAC accredited Fire Officer I Certification testing. Upon successful completion of the course and certification exam, the student will earn a Fire Officer I IFSAC accredited certificate.

Technology Requirements: Computer capable of high-speed internet connection, High-speed internet connection (will not work with a dial-up connection)

Prerequisite: NFPA Fire Instructor I, NFPA Firefighter II, 2147 or 2137 or equivalent I-200 training

Recommended Prerequisite: 2118, 2119 and 2121

Hours: 32

Students: Min: 12 Max: 16

Resident Fee: \$5

## **2102 FIRE OFFICER II**

This course addresses the needs of the station officer/battalion chief and above as defined in NFPA 1021: Fire Officers Professional Qualifications, Level II; 2003 Edition. The course includes subjects related to human resource management, forms of governments, interagency and intergovernmental cooperation, analyses, evaluations and statistics, management, administrative responsibilities, fire and safety inspections, fire investigations, multi-unit emergency scene operations, post-incident analysis and critiques, and safety investigations and analyses. Students will apply these accepted skills to solving, analyzing and critiquing situations.

Upon successful completion of the course, the student will receive a Fire Officer II, IFSAC accredited certificate. Homework and other out-of-class assignments will be necessary to complete this course. The student manual and an informational letter with reading assignments will be mailed to registered students four weeks prior to the class starting.

Prerequisite: NFPA Fire Officer I or 2100 or 4504, I-100, I-200, I-300

Hours: 40

Students: Min: 12 Max: 20

Resident Fee: \$5 in-state, \$640 out-of-state (dorm and meals additional)

\$480 in-state military (dorm and meals additional)

## **2113 FIRE SERVICE SUPERVISION: INCREASING PERSONAL EFFECTIVENESS**

This course is designed to meet the needs of fire service supervisors and program managers, and review basic skills and techniques that will assist the individual in improving personal effectiveness. The course addresses topics in the areas of: managerial style and personal performance, time management, stress management and personal professional development planning.

Prerequisite: None

Hours: 16

Students: Min: 12 Max: 40

Fee: \$25, Training-in-House \$5 Grant fee: \$750/Class

## **2114 FIRE SERVICE SUPERVISION: INCREASING TEAM EFFECTIVENESS**

This course is designed to meet the needs of fire service supervisors and program managers and focuses on improving the manager's skill in relating with others. The course will address topics in the areas of: motivating others, interpersonal communications, counseling, group dynamics and conflict resolution.

Prerequisite: None

Hours: 16

Students: Min: 12 Max: 40

Fee: \$25, Training-in-House \$5 Grant fee: \$750/Class

# Fire Officer Curriculum

## 2117 INTRODUCTION TO VOLUNTEER EMERGENCY SERVICES MANAGEMENT

This course demonstrates the basic management techniques needed to effectively administer a volunteer emergency service organization. Participants will explore the transition from firefighting into management. Students will learn and apply basic principles of communication, motivation, problem solving, decision making, and the management process to accomplish their agency's missions and goals.

Prerequisite: None

Hours: 16

Students: Min: 12 Max: 40

Fee: \$25, Training-in-House \$5

## 2118 PREPARATION FOR INITIAL COMPANY OPERATIONS

This course is designed to develop a better understanding of the role and responsibilities of a Company Officer in preparing his/her company for incident operations. In addition, it will clarify the transition from firefighter to company officer and the new roles relating to leadership and safety. This course is designed for company officers, acting company officers, or senior firefighters responsible for the management of a single engine company fire at an emergency scene.

Prerequisite: 2137 or 2147

Hours: 16

Students: Min: 12 Max: 30

Fee: \$5 Grant fee: \$750 / class

## 2119 STRATEGY AND TACTICS FOR INITIAL COMPANY OPERATIONS

This course is designed to meet the needs of Company Officers responsible for managing the operations of one or more companies during structural firefighting operations. This course is also designed to develop the management skills needed by company officers to accomplish assigned tactics at structure fires.

Prerequisite: 2137 or 2147, and 2118 or 2116

Hours: 16

Students: Min: 12 Max: 30

Fee: \$5 Grant fee: \$750/Class

# Fire Officer Curriculum

## **2121 DECISION MAKING FOR INITIAL COMPANY OPERATIONS**

This course is designed to develop the decision-making skills needed by company officers to accomplish assigned tactics at structure fires. All activities and scenarios used in this course are based on structure fires. As a company officer with the real possibility of being the first to arrive at an incident, the company officer initial decisions will have an impact throughout the entire incident. In addition to a possible role as the initial incident commander, the company officer may be assigned a subordinate position within the ICS organization.

Prerequisite: 2137 or 2147, and 2119

Hours: 16

Students: Min: 12 Max: 30

Fee: \$5 Grant fee: \$750/Class

## **2130 BUILDING CONSTRUCTION PRINCIPLES: NONCOMBUSTIBLE AND FIRE RESISTIVE**

This NFA course is an introduction to the special character of noncombustible and fire resistive construction. Primary emphasis is on improving the officer's ability to ensure firefighter safety by recognizing common causes and indicators of failure and hazards related to building construction or contents, and overall reaction of a building to fire conditions. Suppression personnel will be able to better identify operational and safety concerns in a noncombustible or fire-resistive structure through analysis of its design, material and construction.

Prerequisite: None

Hours: 16

Students: Min: 12 Max: 30

Fee: \$5 Grant fee: \$750/Class

## **2132 PRINCIPLES OF BUILDING CONSTRUCTION: COMBUSTIBLE**

This course consists of 16 hours of classroom instruction to provide a basic understanding of how the construction type, alternative design and materials influence a building's reaction to fire. Upon completion of the course, the student will recognize relevant information about a building before a fire, and fire ground "reading" of the building, enabling the student to assess building stability and resistance to fire and determine likely paths of fire extension.

Prerequisite: none

Hours: 16

Students: Min: 12 Max: 30

Fee: \$5 Grant fee: \$750/Class

# Fire Officer Curriculum

## 2144 INCIDENT COMMAND FOR HIGH-RISE OPERATIONS

This NFA program is designed to assist emergency response officers who have responsibility for managing high-rise incidents. This includes organizing resources, developing strategies and managing tactical operations to protect life and minimize damage.

Prerequisite: 2137 or 2147

Hours: 16

Students: Min: 12 Max: 30

Fee: \$25 Grant fee: \$1,200/Class

## 2145 INCIDENT COMMAND SYSTEM FOR STRUCTURAL COLLAPSE INCIDENTS

This NFA program is designed to provide fire officers with an understanding of command operations including: aspects of structural collapse; basic command procedures and ICS organizational structure; various resource levels, types and capabilities used for structural collapse incidents; critical factors and issues that affect scene management; operational considerations used at structural collapse incidents; response operations phases associated with a structural collapse incident; and technical rescue expertise and equipment required for safe operations and effective incident management. Students should understand and be able to apply the ICS concept.

Prerequisite: 2137 or 2147

Hours: 16

Students: Min: 12 Max: 30

Fee: \$25 Grant fee: \$1,200/Class

## 2147 NATIONAL INCIDENT MANAGEMENT SYSTEM - INCIDENT COMMAND SYSTEM FOR THE FIRE SERVICE

This NFA course is designed to develop an understanding of the National Incident Management System (NIMS) Incident Command System (ICS) and the and their application in both emergency and non-emergency situations. This includes single company operations and events that may require a response by multiple agencies. This course addresses the need for ICS, an overview of the structure and flexibility of ICS and an understanding of the command skills necessary to function effectively in an ICS structure.

Prerequisite: None

Hours: 16

Students: Min: 12 Max: 30

Fee: \$5 Grant fee: \$750 / class

## 2148 INTRODUCTION TO UNIFIED COMMAND

This NFA course is designed for those officers who would likely function in a command or general staff role position during a multi-agency operation. Students will be exposed to lectures and activities designed to promote a better understanding of multi-agency needs and a Unified Command structure. This course is designed to provide an understanding of the requirements of a Unified Command organization and the skills necessary to operate at complex incidents.



Prerequisite: 2137 or 2147  
Hours: 16  
Students: Min: 12 Max: 30  
Fee: \$5 Grant fee: \$750/Class

## 2150 INCIDENT SAFETY OFFICER

Students will learn to identify and analyze safety concerns as they relate to all-hazards scene evaluation and communicate recommended solutions to the command authority. This course examines the safety officer's role at emergency response situations. A specific focus is on operations within an incident command system as a safety officer.

Prerequisite: None  
Hours: 16  
Students: Min: 12 Max: 30  
Fee: \$5 Grant fee: \$750/Class

## 2151 HEALTH AND SAFETY OFFICER (HSO)

This course examines the HSO's role in identifying, evaluating and implementing policies and procedures that affect health and safety for emergency responders. Risk analysis, wellness and other occupational safety issues are the main emphasis of the program.

Prerequisite: None  
Hours: 16  
Students: Min: 12 Max: 30  
Fee: \$5 Grant fee: \$750/Class

## 2153 I-300 INTERMEDIATE INCIDENT COMMAND

This course provides training on and resources for personnel who require advanced application of the Incident Command System (ICS). The target audience for this course is individuals who may assume a supervisory role in expanding incidents or Type 3 incidents. Note: During a Type 3 incident, some or all of the command and general staff positions may be activated, as well as division/group supervisor and/or unit leader level positions. This course expands upon information covered in the ICS-100 and ICS-200 courses.

Prerequisite: 2137 or 2147 or equivalent training comparable to I-100 and I-200  
Hours: 16  
Students: Min: 12 Max: 30  
Fee: \$5

# Fire Officer Curriculum

## 2154 I-400 ADVANCED INCIDENT COMMAND

This course provides training and resources for personnel who require advanced application of the Incident command System (ICS). The target audience for this course is senior personnel who are expected to perform in a management capacity in an area command or multi-agency coordination entity. This course expands upon information covered in ICS-100 through ICS-300 courses.

Prerequisite: 2148 or 2153, equivalent training comparable to I-100 through I-300

Hours: 16

Students: Min: 12 Max: 30

Fee: \$5

## 2155 FIRE GROUND COMMAND SIMULATION

This computer simulation course offers students the opportunity to practice and improve their tactical skills at a variety of fire-related incidents. This course helps to reinforce personnel and resource management skills, decision making skills and test department standard operating procedures/guidelines. In this interactive course, students will have the opportunity to practice: standardize arrival reports, size up a variety of fire-related incidents, plan tactical operations, conduct personnel accountability reports, conduct mayday events and critique operations at all levels.

Prerequisite: 2137, 2147 or equivalent training comparable to I-100 and I-200

Hours: 16

Students: Min: 12 Max: 20

Fee: \$5

## 2171 LEADERSHIP I: STRATEGIES FOR COMPANY SUCCESS

This NFA course presents the basic leadership skills and tools needed to perform effectively in the fire service. It includes: techniques for problem solving, ways to identify and assess the needs of subordinates, methods for running meetings effectively, and decision-making skills for the company officer.

Prerequisite: None

Hours: 16

Students: Min: 12 Max: 30

Fee: \$25, Training-in-House \$5

Grant fee: \$750/Class

## **2172 LEADERSHIP II: STRATEGIES FOR PERSONAL SUCCESS**

This NFA course provides the basic leadership skills and tools needed to perform effectively in the fire service environment. It addresses ethics, use and abuse of power at the company officer level, creativity in the fire service environment and management of multiple roles.

Prerequisite: None

Hours: 16

Students: Min: 12 Max: 30

Fee: \$25, Training-in-House \$5

Grant fee: \$750/Class

## **2173 LEADERSHIP III: STRATEGIES FOR SUPERVISORY SUCCESS**

This NFA course provides the basic leadership skills and tools to perform effectively in the fire service environment. It covers the following: delegating to subordinates, assessing personal leadership styles through situational leadership, disciplining subordinates and applying coaching and motivating techniques.

Prerequisite: None

Hours: 16

Students: Min: 12 Max: 30

Fee: \$25, Training-in-House \$5

Grant fee: \$750/Class

## **2175 MANAGING IN A CHANGING ENVIRONMENT**

This NFA course is targeted toward company officers, chief fire officers and department administrators. Primary emphasis is on developing flexible management practices to meet economic, social, political and technological changes within the fire service. Students will learn to recognize potential changes and react quickly with effective strategies to manage those changes.

Prerequisite: None

Hours: 16

Students: Min: 12 Max: 30

Fee: \$25

## **2176 SHAPING THE FUTURE**

This NFA course is designed to help fire service managers recognize problems that impact an organization's effectiveness and develop solutions to solve those problems. Content includes: defining present conditions, finding solutions, justifying decisions and managing change in the fire service environment. This program is intended for personnel assigned to management positions, including company officers, chief fire officers and department administrators.

Prerequisite: None

Hours: 16

Students: Min: 12 Max: 30

Fee: \$25, Training-in-House \$5

# Rescue Curriculum

## 3302 CONFINED SPACE REFRESHER

This course reviews the hazards and rescue techniques associated with confined spaces. Practical hands-on rescue evolutions in confined space props will be used to enhance the rescuer's skills.

Prerequisite: 3392 or 3300

Hours: 8

Students: Min: 15 Max: 20

Resident Fee: \$25 in-state, \$128 out-of-state

Regional Fee: \$25

(\$50 if use of the Confined Space Rescue maze trailer is required off site)

## 3310 ROPE RESCUE LOW ANGLE OPERATIONS

This course is designed based on the 3rd Edition of High Rescue Techniques. It will focus mainly on the low angle operations skills addressed in NFPA 1670 Standard on Operations and Training for Technical Rescue Incidents and the rope requirements of NFPA 1006. This course is part one of the Operations Level requirement laid out in NFPA 1670. Topics include; knots, PPE, rope and related equipment, low angle repelling and ascending, belaying, anchoring, patient packaging, raise-lower systems, rescue planning and IMS for the low angle environment. This course is a prerequisite for the Rope Rescue High Angle course, Trench Rescue, Confined Space Rescue, Water Rescue Operations and other US&R Technical Rescue programs.

Note: PPE required: helmet, safety glasses, leather gloves and foot wear with steel toe.

Prerequisite: None

Hours: 24

Students: Min: 15 Max: 20

Fee: \$25 in-state, Training-in-House \$5, \$192 non-municipal, \$256 out-of-state, military, on-site meals and lodging extra.

Grant fee: \$2,000

## 3312 TRENCH RESCUE I

This course is designed to enable the first responder to identify actions to take on the scene of a trench collapse. Topics include: OSHA standard 29 CFR 1926, hazards associated with trench collapse, operational plans for trench rescue, and shoring techniques for trench collapse.

Prerequisite: 3310

Hours: 24

Students: Min: 20 Max: 30

Resident fee: \$100 on-site; \$300 non-municipal; \$384 out-of-state, military, \$155 off site municipal. Meals and dorms extra.

Grant fee: \$7,200

Regional Delivery: Contact regional office for fees. Must have an approved facility.

## 3316 ROPE RESCUE HIGH ANGLE LEVEL I

This course is a newly designed course based on the 3rd Edition of High Angle Rescue Techniques. This course will focus on the remaining skills for Rope Rescuer Level I addressed in the NFPA 1006 Standard for Technical Rescuer Professional Qualifications. This course is the final part of the Level I requirements laid out in NFPA 1006. Topics will include knots, compound mechanical advantage systems, high angle haul systems, high angle lowering, belaying a falling load, high angle rappelling, vertical ascending, victim triage and helicopter ground support activities.

Prerequisite: 3310

Hours: 24

Students: Min: 15 Max: 20

Fee: \$25 in-state, Training-in-House \$5, \$192 non-municipal, \$256 out-of-state, military, on-site meals and lodging extra.

Grant fee: \$2,000

PPE: Helmet, leather gloves, eye protection, high ankle foot wear with steel toe. PPE is to be provided by the student.

## 3330 BASIC AUTO EXTRICATION

The Basic Auto extrication course has been revised for 2011. The course follows the first six chapters of the IFSTA 3rd edition Principals of Vehicle Extrication.

The course meets the requirements for NFPA 1001; 2008 edition for Firefighter II, section 6.4. Rescue Operations. The course material addresses extrication incident management, vehicle science anatomy, extrication equipment and techniques for passenger vehicles. The hands-on skill sessions will include extrication tool familiarization, vehicle stabilization techniques for passenger vehicles, vehicle glass, door, and roof removal as well as dashboard displacement techniques.



Prerequisite: 1152

Hours: 16

Students: Min: 15 Max: 20

Fee: \$25 in state, Training in house \$5 (Department must provide all necessary equipment)\$192 Non-municipal, \$256 Out of State and Military

Grant Fee: \$192

PPE: approved helmet, leather gloves or extrication gloves, leather steel toe boots or bunker boots, bunker gear or extrication coveralls, safety glasses or safety goggles

# Rescue Curriculum

## 3350 WATER RESCUE OPERATIONS

This course introduces the student to the four water rescue specialties (ice, surf, dive and swift water), based on NFPA 1670 and 1006. The concepts of buoyancy, water dynamics, basic hazard recognition, identifying likely victim location and handling witnesses will be addressed. Other areas will include basic water survival and self rescue, low-to high-risk benefit rescue techniques and shore-based water rescue skills. As part of the course, the student must pass a basic swimming test that will include treading water and swimming 50 meters in a pool for successful completion.

Required PPE: Swimsuit and Coast Guard-approved Type III personal flotation device. Whistle-white water type, no moving parts.

Prerequisites: 3310

Hours: 16

Students: Min: 10 Max: 20

Fee: \$25, \$192 non-municipal, \$256 out-of-state, military

## 3362 US&R BUILDING COLLAPSE

This course is part of the Structural Collapse Technician Program. It is designed to provide the senior-level responder with the knowledge, skills and abilities necessary to safely respond and function within a structural collapse and urban search and rescue environment. Topics include: scene safety, building materials, structural systems, collapse patterns, hazard identification, building monitoring, US&R response strategy, structural size-up, shoring basics and shoring construction.

Prerequisites: 3310

Required PPE: Steel-toe boots, helmet, leather gloves, eye protection, hearing protection, coveralls or long pants and shirts with long sleeves. PPE is to be provided by the student.

Hours: 30 (3 days)

Students: Min: 15 Max: 30

Fee: \$200; \$500 Non-fire service, \$625 out-of-state and military

Grant fee: \$15,000

Regional delivery: Contact regional office for information



## **3364 US&R LIFTING & RIGGING HEAVY OBJECTS**

This course is part of the Structural Collapse Technician program. It is designed to provide the senior level responder with the knowledge, skills and abilities necessary to safely respond and function within a structural collapse, urban search and rescue environment. Topics include: mass and gravity, mechanics and energy, moment of force, inclined planes, levers, pulley systems, “A” frame gantries, high-pressure air bags, cribbing, weight calculations and rigging heavy objects.

Prerequisites: 3310

Required PPE: Steel-toe boots, helmet, leather gloves, eye protection, hearing protection, coveralls or long pants and shirts with long sleeves. PPE is to be provided by the student.

Hours: 20 (2 days)

Students: Min: 15 Max: 30

Fee: \$175, \$400 Non-fire service; \$500 out-of-state and military

Grant fee: \$12,000

## **3366 US&R BREACHING/BREAKING/CUTTING & BURNING**

This course is part of the Structural Collapse Technician program. It is designed to provide the senior-level responder with the knowledge, skills and abilities necessary to safely respond and function within a structural collapse, urban search and rescue environment. Topics include: identification of concrete construction, types of components, equipment selection and use, proper techniques necessary to breach, break, cut and burn to gain access through concrete, steel or other structural components during rescue operations in heavy floor, heavy wall, steel and concrete construction.

Prerequisites: 3310

Required PPE: Steel-toe boots, helmet, leather gloves, eye protection, hearing protection, coveralls or long pants and shirts with long sleeves. PPE is to be provided by the student.

Hours: 20 (2 days)

Students: Min: 10 Max: 16

Fee: \$175, \$425 Non-fire service, \$525 out-of-state and military

Grant fee: \$13,000

Note: On-campus delivery only

# Rescue Curriculum

## 3368 US&R TECHNICAL SEARCH

This course is part of the Structural Collapse Technician program. It is designed to provide the senior-level responder with the knowledge, skills and abilities necessary to safely respond and function within a structural collapse, urban search and rescue environment. Topics include: setup, operation and maintenance of technical search equipment, including cameras and acoustic listening devices used in the location of buried survivors.

Prerequisites: 3310

Required PPE: Steel-toe boots, helmet, leather gloves, eye protection, hearing protection, coveralls or long pants and shirts with long sleeves. PPE is to be provided by the student.

Hours: 20 (2 days)

Students: Min: 10 Max: 16

Fee: \$150; \$325 non-fire service; \$425 out-of-state and military

Grant fee: \$10,000

Note: On-campus delivery only

## 3390 CONFINED SPACE ENTRY OPERATIONS

This course covers the OSHA requirement for entry into Permit Required Confined Spaces and Pre-Incident Planning. The course addresses the hazards of confined spaces, air monitoring, ventilation, confined space rescue equipment and the confined space management system. Numerous hands on skill sessions inside and outside the classroom help prepare the confined space entrant for a safe entry and exit from a confined space.

Prerequisite: 3310

Hours: 24

Students: Min: 15 Max: 20

Fee: \$25

Grant Fee: \$4,800 class of 20

Note: Use of the SCFA Confined Space Trailer (includes delivery) \$50

PPE: Low Profile Helmet, safety goggles or safety glasses, leather gloves, safety work boots

## 3392 CONFINED SPACE RESCUE I

This course addresses the requirement for rescue from Permit Required Confined Spaces and the safe removal of a victim from a confined space. The course addresses patient packaging, confined space rescue communication systems and entry rescue from vertical and horizontal confined spaces. Numerous hands on skill sessions and rescue scenarios inside a confined space training prop are part of the course. This course can be physically challenging and demanding for the student inside the confined space training prop. Student should be in good physical condition before considering enrolling in this class.

Prerequisite: 3390

Hours: 16

Students: Min 15 Max: 20

Fee: \$25

Grant Fee: \$3,600 class of 20

Note: Use of the SCFA Confined Space Trailer (includes delivery) \$50 / Unless course is concurrent with 3390

PPE: Low Profile Helmet, safety goggles or safety glasses, leather gloves, safety work boots

# Hazardous Materials Curriculum

## 2180 CHEMISTRY FOR EMERGENCY RESPONSE (7716 NFA Direct Delivery)

This two-week NFA course provides the basic knowledge to evaluate the potential hazards and behaviors of materials considered to be hazardous for one or more reasons. Directed at the underlying reasons for the chemical behavior of hazardous materials, the course is designed to improve decision-making, safety operations and handling. The course is heavily chemistry oriented.

Prerequisite: Students should have understanding of basic chemistry to receive the optimum benefit from this course.

Hours: 80

Students: Min: 15 Max: 30

Fee: None (funded by FEMA grant through SCEMD)

## 2719 HAZ-MAT (OSHA HAZWOPER) TECHNICIAN ANNUAL REFRESHER

This course provides the haz-mat technician with the annual training required to maintain competencies for offensive response tactics. Topics include containment and confinement, decontamination exercises, Level-A dress-out, and use of instruments and haz-mat scene management.

Prerequisite: 2723 or equivalent level training

Hours: 16

Students: Min: 15 Max: 20

Fee: \$75 in-state, \$256 out-of-state, DOD

Grant fee: \$3,400/Class

Delivery: This program is scheduled by the resident training staff. Availability is based on equipment and instructors. Training-in-House delivery is based on instructors, equipment and Fire Academy approval. This course can be customized by topic to meet annual refresher requirements.

## 2723 OSHA HAZ-MAT TECHNICIAN

This course is designed for those emergency personnel who have response needs at the scene of a hazardous materials incident. It meets the requirements in OSHA 1910.120 for technician level training. The program introduces the student to equipment and skills required for definitive offensive response tactics. Students must demonstrate operations level competencies and complete an evaluation on the first day of the program. During the program, students will also demonstrate proficiency in protective clothing, decontamination, spill and leak control, air monitoring, and site safety and control. The course requires successful completion of both practical and written skill assessments.

Prerequisite: 2722 or comparable operations level training or 4506

Hours: 40

Students: Min: 15 Max: 20

Fee: \$125 in-state; Training-in-House \$45; non-municipal \$480; \$640 out-of-state, DOD

Grant fee: \$7,200 / Class

Delivery: This program is scheduled by the resident training staff. Availability is based on equipment and instructors.

# Hazardous Materials Curriculum

## 2726 HAZ-MAT OPERATIONS REFRESHER

This course provides the annual training required to maintain competency at the operations level. Subjects include: Haz-mat properties and hazards, identification, strategies and tactics, personal protective equipment, decontamination and terrorism elements. Successful completion of the course requires passing practical competency testing.

Prerequisite: 2722 - Hazardous Materials: Operations or 4506

Hours: 8

Students: Min: 15 Max: 20

Fee: \$25 in-state, Training-in-House \$5, \$96 non-municipal, \$128 out-of-state, DOD

Grant fee: \$1,000/Class

## 2727 HAZARDOUS MATERIALS AWARENESS LEVEL

This course is available in two formats, an on-line version or the traditional classroom method. The course is designed to provide untrained personnel with a basic understanding of hazardous materials. The course follows the 2008 edition of NFPA 472, Standard for Competence of Responders to Hazardous Materials/ Weapons of Mass Destruction Incidents competencies. This course provides the student with the knowledge needed to protect themselves and others at hazardous materials incidents. Subjects include: introduction to hazardous materials (rules, regulations and properties), hazardous materials identification (includes working with the DOT-ERG, MSDS and shipping papers), managing the incident (NIMS-ICS, communications, protective actions), personal protective clothing, terrorist and other criminal activities (introduction to terrorism, chemical and biological attacks, special considerations for terrorist or criminal incidents). The traditional delivery method consists of lecture and classroom activities while the on-line version will consist of interactive reading assignments with quizzes and videos. Both versions will have a cognitive exam at the end. Successful completion of this course will allow you the opportunity to challenge the IFSAC-endorsed State Certification Exam for the Awareness Level at a later date.

Prerequisite: None

Hours: 8

Students: Traditional Delivery – Min: 12 Max: 30, On-Line – Unlimited (maximum 30 days to complete)

Fee: \$5

Note: All students registering for the on-line version of this course will use the following course code and Section Number on their registration form: 2727-12001. Traditional course students will use the course code and section number as published for their course selection. On-line students will receive additional information on how to gain access to the on-line training site.

# Hazardous Materials Curriculum

## 2728 HAZARDOUS MATERIALS OPERATIONS LEVEL

This course is designed to take students that have completed the 2727 Hazardous Materials Awareness training to the next step - Operations level. Operations personnel function in the defensive mode at hazardous materials incidents and can perform duties such as spill control and emergency decontamination. The program builds upon material learned in awareness and introduces new material to the student. Subjects include: regulations, properties and hazards, identification, incident management elements, strategic goals and tactical objectives, personal protective equipment, contamination and decontamination, incident specific strategies and tactics and terrorist and other criminal activities. This course consists of classroom lectures and activities and hands-on practical skills. Successful completion requires passing both written and practical exams. Students who successfully complete the course may take the certification examination. This course meets all objectives of NFPA 472, chapter 5 core competencies for operations level and 6.2 and 6.6 mission specific competencies required by NFPA 1001 for Firefighter I.

### NOTE:

The AHJ must insure their personnel receive the proper training on the type of PPE required to support the mission or task at hazardous materials incidents based on local procedures.

Prerequisite: 2727 or comparable awareness level training, I121 or I152, or documentation of SCBA training for non-fire service personnel

Hours: 32

Students: Min: 15 Max: 20

Fee: \$5 in-state, \$384 out-of-state, DOD

Grant fee: \$240 each

## 2736 EMERGENCY RESPONSE TO CHLORINE INCIDENTS

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 100 and 150-pound cylinders, one-ton cylinders and rail cars. Successful completion of written and practical exams is required for course credit.

Prerequisite: Haz-mat technician qualified or 2723

Hours: 16

Students: Min: 15 Max: 20

Fee: \$75 in-state, \$192 non-municipal - \$235 in-state DOD and \$256 out-of-state,

DOD

Grant fee: \$4,000/Class

Delivery: This program is scheduled by the resident training staff. Availability is based on equipment and instructors.

# Hazardous Materials Curriculum

## 2751 EMERGENCY RESPONSE TO TERRORISM: BASIC CONCEPTS

This Office of Domestic Preparedness course prepares first responders for terrorist-related incidents, primarily at the operations level. The course focuses on life safety and self-preservation, and topics include understanding and recognizing terrorism, detecting various hazards, self protection measures, scene control, tactical considerations and an overview of terrorism incident management.

Prerequisite: None, but Hazardous Materials Operations training is recommended.

Hours: 16

Students: Min: 15 Max: 30

Fee: \$25

Grant fee: \$1,430

## 2755 NBC TERRORISM TECHNICIAN

This course provides the hazardous materials technician with the necessary skills to operate safely at an NBC terrorism event. Topics will include: detection equipment, evidence collection, overpacking for crime scenes, victim rescue and decontamination. The student will receive hands-on experience with some of the latest NBC detection equipment, such as the Chemical Agent Monitor, M-256AI chemical detection kit, M-8/M-9 paper, Bio-Detection tickets, S.M.A.R.T-2 and other well-known detection equipment.

Prerequisite: 2723 - Hazardous Materials Technician

Hours: 24

Students: Min: 16 Max: 20

Fee: Call for pricing

Grant fee: \$4,500/Class

Delivery: This program is scheduled by the resident training staff. Availability is based on equipment and instructors.

## 2757 EMERGENCY RESPONSE TO TERRORISM: COMPANY OFFICER TACTICAL CONSIDERATIONS

This NFA course is designed to build upon the existing knowledge and skills of the first-responding supervisor from the Emergency Response to Terrorism-Basic Concepts Course, Self Study Guide. Students will be trained in security considerations, identifying signs of terrorism, anticipating unusual response circumstances, assessing information and initiating self protection actions.

Prerequisite: None

Hours: 16

Students: Min: 10 Max: 30

Fee: \$25 (free if covered under command grant)

Grant fee: \$1,000/Class

# *Hazardous Materials Curriculum*

## **7171 EMERGENCY RESPONSE TO TERRORISM: TACTICAL CONSIDERATIONS-HAZARDOUS MATERIALS**

This NFA course is designed for hazardous materials technicians first on the scene or persons who have the responsibilities of developing initial hazardous materials tactical considerations. Students will be trained in security considerations, identifying signs of terrorism, anticipating unusual response circumstances, assessing information and initiating self protection actions. Students will apply their knowledge about responding to a terrorist event, managing site safety, documenting the event and debriefing personnel.

Prerequisite: None

Hours: 16

Students: Min: 10 Max: 30

Fee: Call for Pricing

# Inspection & Investigation Curriculum

## 2139 INTRODUCTION TO FIRE INSPECTION PRINCIPLES AND PRACTICES

This three-day NFA based course is designed for those with the primary job responsibility of conducting fire and life safety inspections. The course provides a broad framework for the individual who has little or no experience in conducting fire inspections. It helps new inspectors understand the knowledge and skills required to conduct inspections and the various steps in the inspection process. Subjects include fire behavior, common fire hazard recognition, building construction, fire protection systems and actual inspection practices and procedures. At the completion of the program, the course includes a written examination.

Prerequisite: None

Hours: 24

Fees: \$10 (does not include dorm room or meals)

Students: Minimum-15, maximum-30

Registration Cut Off: Registration for this course has a 30 day cut off. All registrations must be received 30 days prior to start of course.

Textbook Information: Students will be provided a copy of the NFA student guide and other handouts, as required on the first day of class.

Application Procedure: Students must complete the SCFA Registration Form and submit it to the Resident Registrar, at least 30 days prior to start of class.

Certificate of Completion: Students achieving a minimum score of 70 on the final examination will be mailed a certificate.

## 3213 BASIC FIRE/ARSON INVESTIGATION

This course covers South Carolina law, fire behavior, building construction and fire investigation, point of origin, accidental and incendiary fire causes, motivation of the fire-setter, fire photography, fire scene sketching, scene investigation, wildland fires, fatal fires, legal aspects, interviewing and interrogation, evidence collection and preservation, forensic lab service, incendiary devices, electricity and electrical fires, RICO statutes and investigative field reports.

Prerequisite: Letter of endorsement from the organization head providing justification for the student to be included in the program and the benefits afforded the organization when the student complete the course. Included in the letter should be a description of job duties as they relate to the field of fire investigation. At least three to five years fire service experience or equivalent related training required. Students should be familiar with NFPA 921 and NFPA 1033. The SCFA registration form, letters of endorsement from the organization head and students' resumes must be on file at least 30 days prior to the start of the course. Background/reference checks will be utilized to assist in determining student eligibility.

Hours: 80

Students: Min: 18 Max: 30

Fee: Free; student must pay meals and dorm fees.

Note: On-campus delivery only

# Inspection & Investigation Curriculum

## 3224 ARSON DETECTION FOR FIRST RESPONDERS

This NFA course provides the definition of the role of initial responders and the knowledge enabling them to recognize an intentionally set fire, preserve evidence and properly report the information. Topics include: fire behavior; critical observations; fire causes; scene and evidence security; legal considerations; and reporting. This course is for those inexperienced in arson detection and evidence preservation. It is not beneficial for an arson-experienced firefighter or inspector.

7311 - NFA direct delivery of this course

Prerequisite: None

Hours: 16

Students: Min: 15 Max: 30

Fee: \$25

## 3226 NFPA FIRE INSPECTOR I

This five-day course is a national certification program for fire inspectors. It is recognized in all 50 states and in several foreign countries. It is prepared in accordance with NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner. It involves a 40-hour plus classroom session ending with a four-hour written examination, plus practical field inspections of various occupancies. These practical field inspections are conducted in the student's home jurisdiction, accompanied by a member of the CFI-I instructional team or an employee of the student's home jurisdiction. The completed inspections are then forwarded to the S.C. OSFM for review.

Prerequisite: None. However, a pre-course assignment will be sent to each student upon class acceptance that must be completed before the first day of class.

Hours: 40 plus

Fees: \$400 in-state and \$475 out-of state/industrial. Fees must be prepaid at time of registration, and are not refundable after registration cutoff date. (Course registration does not include dorm room or meals.)

Students: Minimum-10, maximum-25

Registration Cut Off: Registration for this course has a 30-day cut off. All registrations must be received 30 days prior to start of course. This allows ample time for the pre-course material to be received and completed.

Textbook Information: Code books are not provided as part of this course. All such books are the responsibility of the student. Students are responsible for bringing the correct editions of NFPA Codes and Standards as listed below. The correct books and editions will be verified on the first day of class. NFPA publications may be purchased from the SCFA at a special discount package price as indicated, if needed.

PACKAGE PRICE: \$90 for set of five

- NFPA 1, 2009 edition
- NFPA 13, 2007 edition
- NFPA 25, 2008 edition
- NFPA 72, 2007 edition
- NFPA 101, 2009 edition

# Inspection & Investigation Curriculum

Electronic, online, and handbook versions of these manuals are not permitted for this course. The IFSTA Fire Inspection and Code Enforcement Manual (7th edition) and Study Guide are included in the course fee. They will be mailed upon acceptance in the course. The pre-course assignment, prior to the first day of class, must be read and completed.

**Application Procedure:** Students must complete the SCFA Registration Form and the NFPA Certified Fire Inspector I Application and submit them to the Resident Registrar, at least 30 days prior to start of class.

**Retest Procedure:** If a student fails to achieve a minimum score of 70 on the final examination, the student must schedule a retest by completing the Certified Fire Inspector I Retest Application and submitting it to the OSFM training coordinator. The fee for the retest is \$75 and must be paid prior to taking the retest. If the student does not achieve a minimum score of 70 on the retest, the student must retake the entire course. The cost for retaking the course is the same as the original registration.

## **3228 NFPA PLANS EXAMINER I**

This four-day course is a national certification program designed to equip the student with the skills necessary to conduct a successful plan review of fire-related systems and components. It is recognized in all 50 states and in several foreign countries. It is prepared in accordance with NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner. It involves a 24-hour plus classroom session ending with a four-hour written examination, plus a practical phase that includes five required plan reviews. These practical plan reviews are conducted in the student's home jurisdiction and submitted for review to the S.C. OSFM.

**Prerequisite:** None. NFPA Certified Fire Inspector I (Course 3226) is recommended. However, a pre-course assignment will be sent to each student upon class acceptance which must be completed before first day of class.

**Hours:** 28 plus

**Fees:** \$375 in-state and \$450 out-of state/industrial. Fees must be prepaid at time of registration, and are not refundable after registration cutoff date. (Course registration does not include dorm room or meals)

**Students:** Minimum-10, maximum-25

**Registration Cut Off:** Registration for this course has a 30-day cut off. All registrations must be received 30 days prior to start of course. This allows time for the pre-course material to be received and completed.

**Textbook Information:** Code books are not provided as part of this course. All such books are the responsibility of the student. Students are responsible for bringing the correct editions of NFPA Codes and Standards as listed below. The correct books and editions will be verified on the first day of class. NFPA publications may be purchased from the SCFA at a special discount package price as indicated, if needed.

**PACKAGE PRICE:** \$90 for set of four

- NFPA 1, 2009 edition
- NFPA 13, 2007 edition
- NFPA 72, 2007 Edition
- NFPA 101, 2009 Edition

# Inspection & Investigation Curriculum

For students with little or no experience in working with print reading, the following textbook, although not mandatory, will provide valuable information on the basics of architectural and constructions print reading:

Print Reading for Architecture and Construction Technology, 2nd edition, by Madsen and Jefferies. It is available from the publisher at:

[http://www.delmarlearning.com/browse\\_product\\_detail.aspx?catid=13497&isbn=1401851673](http://www.delmarlearning.com/browse_product_detail.aspx?catid=13497&isbn=1401851673)

Electronic, online, and handbook versions of these manuals are not permitted for this course. IFSTA Plans Examiner for Fire and Emergency Services (1st Edition) and Study Guide are included in the course fee. They will be mailed upon acceptance in the course. The pre-course assignment, prior to the first day of class, must be read and completed.

**Application Procedure:** Students must complete the SCFA Registration Form and the NFPA Certified Fire Plan Examiner Application and submit them to the Resident Registrar, at least 30 days prior to start of class.

**Retest Procedure:** In the event that the student fails to achieve a minimum score of 70 on the Final Examination, the student must schedule a retest by completing the Certified Fire Plan Examiner Retest Application and submitting it to the OSFM Training Coordinator. The fee for the retest is \$75.00 which must be paid prior to taking the retest. In the event the student still does not achieve a minimum score of 70 on the retest, the student must retake the entire course. The cost for retaking the entire course is the same as for the original registration

## **3229 NFPA CERTIFIED FIRE INSPECTOR II**

This four-day course is an advanced national certification program for fire inspectors. It is recognized in all 50 states and in several foreign countries. It is prepared in accordance with NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner. It involves a 24-hour plus classroom session ending with a four-hour written examination, plus practical field inspections of various occupancies. These practical field inspections are conducted in the student's home jurisdiction, based on the requirements of Chapter 5 of NFPA 1031. The completed inspections are then forwarded to the S.C. OSFM for review.

**Prerequisite:** NFPA Certified Fire Inspector I (Course 3226). A pre-course assignment will be sent to each student upon class acceptance that must be completed prior to the first day of class.

**Hours:** 28 plus

**Fees:** \$375 in-state and \$450 out-of state/industrial. Fees must be prepaid at time of registration, and are not refundable after registration cutoff date. (Course registration does not include dorm room or meals.)

**Students:** Minimum-10, maximum-25

**Registration Cutoff:** Registration for this course has a 30 day cut off. All registrations must be received 30 days prior to start of course. This allows time for the pre-course material to be received and completed.

**Textbook Information:** Code books are not provided as part of this course. All such books are the responsibility of the student. Students are responsible for bringing the correct editions of NFPA Codes and Standards as listed below. The correct books and editions will be verified on the first day of class. NFPA publications may be purchased from the SCFA at a special discount package price as indicated, if needed.

# Inspection & Investigation Curriculum

## SET ONE:

PACKAGE PRICE: \$90 for set of five

- NFPA 1, 2009 edition
- NFPA 13, 2007 edition
- NFPA 25, 2008 edition
- NFPA 72, 2007 edition
- NFPA 101, 2009 edition

## SET TWO:

PACKAGE PRICE: \$30 for set of two

- NFPA 24, 2007 Edition
- NFPA 220, 2009 Edition

A student does not need to purchase both sets, if the student still has the specified editions from the NFPA CFI-I program. Electronic and online versions of these manuals are not permitted for this course. IFSTA Fire Inspection and Code Enforcement Manual (7th Edition) and Study Guide are included in the course fee. They will be mailed upon acceptance in the course. The pre-course assignment, prior to the first day of class, must be read and completed.

**Application Procedure:** Students must complete the SCFA Registration Form and the NFPA Certified Fire Inspector II Application and submit them to the Resident Registrar, at least 30 days prior to start of class.

**Retest Procedure:** If the student fails to achieve a minimum score of 70 on the final examination, the student must schedule a retest by completing the Certified Fire Inspector II Retest Application and submit it to the OSFM training coordinator. The fee for the retest is \$75 and must be paid prior to taking the retest. If the student does not achieve a minimum score of 70 on the retest, the student must retake the course. The cost for retaking the course is the same as the original registration.

# Inspection & Investigation Curriculum

## 8506 QUARTERLY FIRE MARSHAL TRAINING

: These six-hour training programs are conducted to assist Certified Fire Marshals in obtaining the required 40 Professional Development Hours (PDH) of training needed to apply for recertification biennially. Courses are delivered throughout the state through the SCFA Regional Offices. One class is conducted each quarter at various locations within the state, and two identical classes are conducted each quarter at the SCFA. Classes are developed based on training requests received from Certified Fire Marshals, updated information from statutes, codes and standards, and items deemed of special interest to the cadre of Certified Fire Marshals. Subject matter changes each quarter.

Per CFM recertification policy, each year one mandatory quarterly class is required. Certified Fire Marshals are given the choice in attending only one quarterly class offered in August or November.

Prerequisite: None

Hours: six per class (PDH)

Class Hours: 9 a.m. to 4:00 p.m.

Fees: \$5 per regional class (no meal provided), \$11 for SCFA class (includes lunch, dorms not included). All costs and fees incurred for registration and training will be the responsibility of the individual or the respective department or agency.

Students: Minimum – 20, maximum - depends on location.

Contact the Registrar for specific course limitations.

Registration Cut-off: Registration for this course has a 30-day cut-off. Pre-registration is required for all courses and must be received prior to cut-off date. Walk-in registration is not allowed.

Textbook Information: Unless otherwise specified in a specific course offering, no textbooks will be required. Depending on the subject matter, it is suggested that students bring the referenced code book or standard. Handout materials will be provided for students taking notes. An exam may be given at the end of each program.

Application Procedure: Students must complete the SCFA Registration Form and submit it to the appropriate SCFA Registrar, at least 30 days prior to start of class.

Course Completion Certificates: Students successfully completing the course will be provided certificates indicating the number of PDH awarded for credit toward biennial recertification.

# Inspection & Investigation Curriculum

## 8507 FIRE MARSHAL CERTIFICATION

This advanced course is designed to teach the student the needed skills of fire inspection, utilizing the International Building, Fire Codes, State Statutes, Fire Marshal Rules & Regulations, NFPA 13, 25, 30, 30A, 72, 96, and IFSTA Fire Inspection and Code Enforcement Manual & Interactive Study Guide. This course incorporates the provisions of NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner.

**PART 1 Classroom:** Five days (40 hours) of classroom instruction.

**PART 2 Exam:** The exam is a five-hour, open-book, 100-question exam which will be given within 30 days after the completion of the classroom instruction. In the event that the student fails to achieve a minimum score of 70 on the final examination, the student will be allowed to schedule one retest with the OSFM Training Coordinator at no additional fee. In the event the student still does not achieve a minimum score of 70 on the retest, the student must retake the entire course. The fee for retaking the course will be \$200.

**PART 3 Practical:** After successful completion of the exam, each student will spend a day with a Deputy State Fire Marshal to conduct on-site inspections where you will be evaluated doing the following: personal appearance and working in a professional manner; having the proper tools to conduct an inspection; knowledge of codes and applying them; conducting a systematic inspection; writing reports; communicating with the public, etc. This phase must be completed within 90 days of passing the exam. In the event that the student fails to achieve a minimum score of 70 on the practical, the student will be allowed to schedule one retest with the OSFM Training Coordinator at no additional fee. In the event the student still does not achieve a minimum score of 70 on the practical, the student must retake the entire course. The fee for retaking the course will be \$200.

Failure in completing all parts of the program within 120 days of the last day of classroom instruction, will result in the student getting a failing grade for the course and being required to retake the course. The fee for retaking the course will be \$200.

After successful completion of the practical, a certificate of course completion and license application will be mailed to the student.

**Prerequisite:** Introduction to Fire Inspection Principles and Practices (Course 2139). A pre-course assignment will be sent to each student upon class acceptance, which must be completed before first day of class.

**Hours:** 40 plus

**Fees:** \$200 (Course registration does not include dorm room or meals). All costs and fees incurred for registration and training will be the responsibility of the individual, or their respective department or agency.

**Students:** Minimum: 15 Maximum: 35

**Cancellation:** No refund will be given for any cancellation after the 30-day cut-off.

**Application Procedure:** Students must complete the SCFA Registration Form and submit it to the resident registrar, at least 30 days prior to start of class.

**Registration Cutoff:** Registration for this course has a 30-day cut-off. All registrations must be received 30 days prior to start of course. This is to allow time for the pre-course material to be received and completed.

# Inspection & Investigation Curriculum

Textbook Information: Codes and standards are not provided as part of this course. All such books are the responsibility of the student. State statutes and Fire Marshal Rules & Regulations are provided in the Student Workbook which will be distributed the first day of class. Students are responsible for bringing the correct editions of the International Building, Fire Codes, and the NFPA Codes and Standards listed below. The correct books and editions will be verified on the first day of class.

International Building Code, 2009 edition	NFPA 30, 2008 edition
International Fire Code, 2009 edition	NFPA 30A, 2008 edition
NFPA 13, 2010 edition	NFPA 72, 2010 edition
NFPA 25, 2008 edition	NFPA 96, 2008 edition

Electronic, online and handbook versions of these manuals are not permitted for this course. IFSTA Fire Inspection and Code Enforcement Manual (7th Edition) & Interactive Study Guide are included in the course fee and will be shipped upon acceptance into the course. The material must be read and completed as the pre-course assignment prior to the first day of class.

## 8510 SOUTH CAROLINA FIRE INCIDENT REPORTING SYSTEM TRAIN-THE-TRAINER

This one-day class is designed to give the necessary skills needed to download, install and train the fire department on how to correctly complete incident reports using the Federal Incident Reporting Tool. Upon completion of this class, the student will have the tools necessary to install the free Federal Incident Reporting Tool software and train the fire department to complete and submit incident reports to the State Fire Marshal's Office. Submission of incident reports to the State Fire Marshal's Office qualifies a fire department as a participant in the SCFIRS and the NFIRS programs, as required through the Assistance to Firefighters Grant program.

Prerequisite: None

Hours: 8

Fee: None

Students: Min: 10 Max: 14

# Aircraft Rescue Firefighting Curriculum

## 3400 BASIC AIRCRAFT RESCUE FIREFIGHTING

This course provides skills necessary to perform aircraft rescue firefighting duties. Classroom presentations include FAA rules and regulations, aircraft and airport familiarization, fire behavior, ARFF apparatus, PPE, rescue and firefighting procedures, hazardous materials, incident command and airfield communications. Practical sessions include forcible entry and disentanglement, live fire truck operations, live wheel/brake, engine, galley and cabin fires, flammable liquids foam firefighting and three-dimensional fires.

This course meets the NFPA 1003, Airport Firefighter Professional Qualifications, 2010 edition. The course also meets FAR 139 refresher burn requirements. Upon successful completion of the written and practical examinations, students will be certified and receive an IFSAC accredited certificate.

Prerequisite: 1121, 1131, 2722, 1136, 3330 or NFPA Firefighter 11

Hours: 40

Students: Min: 10 Max: 25

Fee: \$811 in-state, non-federal departments; \$934 out-of-state and federal departments; \$1,284 out-of-country.

Fee includes: Six nights dorm double occupancy, six breakfasts and six lunches Monday through Saturday.

Note: On-campus delivery only

## 3402 MUNICIPAL APPROACH TO AIRCRAFT RESCUE FIREFIGHTING

This is a basic course covering aspects of municipal department response to an aircraft incident or accident. The topics are: tactics and strategies, interior operations, engine, wheel, brake and engine fires, rescue procedures, practical search, aircraft familiarization, analyzing major airplanes crashes and aircraft fire scenarios.

Prerequisite: 1121 or 1152 or Firefighter I or equivalent. Provide documentation.

Hours: 16

Students: Min: 10 Max: 18

Fee: \$25 in-state, non-federal departments, \$225 out-of-state, \$250 military

Note: Off-site delivery at SCFA approved locations



# Aircraft Rescue Firefighting Curriculum

## 3405 FAR139 REFRESHER: WHEEL, ENGINE AND INTERIOR FIRES

This course is practical firefighting refresher training using Specialized Aircraft Fire Trainer. The course covers engine, wheel, galley and cabin fires. It also covers handline deployment, agent application techniques, aircraft entry, ladders, ventilation, search and rescue. Students will rotate through each fire type and then be assigned to teams to respond to simulated aircraft incidents.

Prerequisite: 1121 or 1153 or 4501 or Firefighter I or equivalent. Must provide documentation of training with registration.

Hours: 4

Students: Call for course availability.

Fee: \$50 in-state, non-federal departments, \$150 out-of-state and military

Note: On-campus delivery only

## 3406 FAR 139 - TRUCK OPERATION PIT FIRES

This course is practical firefighting refresher training using the Fuel Spill Burn Area prop with a full-scale 737 mock-up with propane burn areas. Students will practice approaches and agent application techniques using ARFF apparatus turrets. This course will include up to nine pit fires and can be small, medium or large. Course objectives can be tailored to specific customer needs.

Prerequisite: 1121 or 1152 or 1153 or 4501 or Firefighter I or equivalent. Must provide documentation of training with registration.

Hours: 4

Students: Call for course availability

Fee: \$300 in-state, \$330 out-of-state and military

Note: On-campus delivery only

## 3409 ARFF - FLAMMABLE LIQUID FIREFIGHTING

This course provides information on the fire behavior of flammable liquids and the appropriate fire-extinguishing agents. The classroom session will review dry chemicals, foam types, application techniques, application rates, aircraft firefighting and tank farm fires. The practical session will include up to five live flammable liquid fire evolutions.

Prerequisite: 1121 or 1152 or 1153 or 4501

Hours: 4

Students: Min: 15 Max: 25

Fee: \$210 in-state, \$275 non-municipal and DOD, \$350 out-of-state

Note: On-campus delivery only

## 4165 FIRE AND LIFE SAFETY EDUCATOR I

This program describes the role of today's educator and provides direction for planning fire and life safety education programs. This course also provides the student with information on what motivates people to learn and how people learn differently. Successful completion of the practical evaluation and written exam will result in the student receiving IFSAC accredited certification for NFPA 1035, Fire and Life Safety Educator I.

Prerequisites: none

Hours: 40

Students: Min: 12 Max: 16

Fee: \$5 In-state on campus, non-fire service, \$156, out-of-state, \$512 (meals and dorms are additional)

Note: The student manual and an informational letter with reading assignments will be mailed to registered students four weeks prior to the class starting.

## 4170 FIRE INSTRUCTOR I (BLENDED LEARNING)

Using a practical blended approach to learning, this Fire Instructor I course offers instruction in a highly engaging format. Using the traditional instructional method and an on-line segment this program covers speech, psychology of learning, planning instruction, teaching techniques, presenting instruction, audiovisual materials and methods, testing and evaluation. Successful completion of the course practical and written exam will certify students to the NFPA 1041 – Level I in accordance with NFPA Instructor Professional Qualifications.

Student attends an orientation session and receives course materials, pre-course assignments, log in information and meets the instructor. From home or the station the student completes 10 pre-course assignments; five on line e-learning modules, challenges sample questions, chats with other students and prepares for the classroom experience. Following the completion of the eight week pre-course period the student must attend a two day class conducted in a traditional setting for group discussion, group assignments, material review and IFSAC endorsed Fire Instructor I Certification testing.

Technology requirements:

- A computer with high-speed internet connection
- Adobe Flash 10

Prerequisites: Must be 18 years of age, and provide an e-mail address with class registration.

Hours: 16 Traditional Classroom

Students: Min 12 Max: 16

Resident Fee: \$5 – S.C. Firefighters only

# Instructor Curriculum

## 4171 FIRE INSTRUCTOR I

This course covers speech, psychology of learning, planning instruction, teaching techniques, presenting instruction, audiovisual materials and methods, testing and evaluation. Successful completion of the course practical and written exam will certify students to the NFPA 1041 - Level I in accordance with NFPA - Fire Instructor Professional Qualifications as accredited through the International Fire Service Accreditation Congress.

Prerequisites: 18 years of age

Hours: 40

Students: Min: 10 Max: 16

Fee: \$5, dorms and meals are extra for on-site delivery

## 4172 FIRE INSTRUCTOR II

This course covers curriculum development, testing, and evaluation development along with course and evolution management. The student will follow a development process while writing lesson plans and developing audiovisual support. The development process also includes the writing of testing materials and methods. The course addresses the administrative duties and the supervision and management of instructors. Successful completion of the written and practical exams will train the student to the NFPA 1401 Standard for Instructor Professional Qualification Fire Instructor Level II and qualify the student to challenge the IFSAC accredited South Carolina certification exam. In-class and out-of-class work will be required along with the completion of a final project to be submitted no later than six months after the class ends.

This course is offered with dual path testing. The SCFA will provide an end of course exam. After successful completion of the course exam, and passing the final curriculum project, the student may (after 30 days and no later than 180 days) take the SC certification exam.

Prerequisite: NFPA fire Instructor I or 4171 or 4500

Hours: 32

Students: Min 10 Max: 16

Fee: \$5

Note: Dorms and meals are not included in the fee

**Students are encouraged to bring a lap-top computer with Microsoft Word and Power Point and an USB type memory stick.**

# Instructor Curriculum

## **4174 FIRE ACADEMY INSTRUCTOR ORIENTATION PROGRAM**

This course will allow students who have successfully completed the Fire Instructor I program (4171) to become eligible to become South Carolina Fire Academy instructors. Course topics will include policies and procedures of the Instructor Certification Policy (AP-010), Fire Academy forms and assisting evaluator skills techniques.

Prerequisites: NFPA Fire Instructor I or 4171 or 4500, 21 years of age, three years of fire service experience. The following must be sent with the registration form to be accepted into the program:

- High school diploma or GED, and
- Current first aid and CPR cards, and
- Letter of endorsement from the chief or agency head

Hours: 4

Students: Min: 6 Max: 16

Fee: None, dorms and meals are extra for on-site delivery

## **4175 LEAD EVALUATOR TRAINING**

This course is designed for Fire Academy Instructors who are currently designated as evaluators in a certain teaching code who wish to become lead evaluators. Content will include the duties and responsibilities of a lead evaluator. An Instructor who registers for this program must have at least one specialty classification and have superior practical skills knowledge in this area. Instructor must have mastered the subject matter of the course to be evaluated and have served as an assisting evaluator.

Prerequisites: Recommended by SCFA management and/or regional coordinator. Recommendation must be attached to the registration form.

Hours: 4

Students: Min.: 8 Max.: 20

Fee: None

# Instructor Curriculum

## Course Prerequisites and Apprenticeships

To attend an Instructor Orientation Workshop (IOW), the following is needed:

- 1) Successful completion as a student in the course desired
- 2) Any other needed prerequisite
- 3) Successful completion of the Instructor Orientation Program, if needed
- 4) Successful completion of any applicable IOW written tests

Note: Appendix A of this document notes all prerequisites and apprenticeships for courses offered by the SCFA under the specialty classification area.

## IOW Course Test Procedures

The following procedure will be in place for IOW testing:

- 1) During the six-month catalog insert, students desiring to enroll in an IOW will be required to contact their respective Fire Academy regional office to schedule an IOW test.
- 2) On the testing day, the student must have the following items upon testing at the regional office:
  - a) Completed Fire Academy registration form with approved signatures
  - b) Proper Picture ID
- 3) At the scheduled IOW testing, the regional coordinator will:
  - a) Administer the IOW written test
  - b) Grade the IOW written test
  - c) Forward passing results to Fire Academy - Columbia office for registration into the scheduled IOW program

The standard SCFA 30-day retest policy will be in place for any scheduled IOW, however, if the initial IOW written test takes place within 30 days of a scheduled IOW, no retest will be allowed and the prospective instructor must wait until the next available IOW course offering.

During this testing procedure, only successful completion of the IOW written test will be recorded for data entry. If IOW student attendance numbers are low, decisions to cancel the IOW will be made by the Fire Academy at the 14-day cutoff point.

# Instructor Curriculum

S.C. Fire Academy Instructor and IOW Prerequisites

Appendix A  
Effective July 1, 2006  
Revised July 1, 2010

## FIREFIGHTING CURRICULUM

- I 936 Flammable Liquids/Gas Firefighting**  
Prerequisites: I 136 course and be I 152 Instructor  
IOW Contents: Overview of SCFA Facilities, 4 hours, pre-test required  
Apprenticeship: Classroom session and practical skills
- I 937 Flammable/combustible liquid Firefighting**  
Prerequisites: I 137 course and be I 152 Instructor  
IOW Contents: Overview of SCFA Facilities, 4 hours, pre-test required  
Apprenticeship: Classroom session and practical skills
- I 138 Pressurized/Compressed Gas Firefighting**  
Prerequisites: I 138 course and be I 152 Instructor  
IOW Contents: Overview of SCFA Facilities, 4 hours, pre-test required  
Apprenticeship: Classroom session and practical skills
- I 940 Rapid Intervention Crew**  
Prerequisites: I 140 course and be I 139 Instructor  
IOW Contents: 4 hours, review of course materials and skills and practical test  
Apprenticeship: 1 full lecture module, 1 scenario
- I 952 Fundamentals of Firefighting**  
Prerequisites: I 152 course  
IOW Contents: 8 hours, review of course materials and skills, pre-test required and practical test  
Apprenticeship: 2 full lecture module and 3 practical skills
- I 953 NFPA Firefighter I**  
Prerequisites: I 153 course or Firefighter I and be I 152 Instructor  
IOW Contents: 8 hours, review of course materials and skills and pre-test required  
Apprenticeship: 2 full lecture module and 3 practical skills
- I 954 NFPA Firefighter II**  
Prerequisites: I 154 course or FFII Certification and be I 153 Instructor  
IOW Contents: 4 hours, Review of course materials and skills, pre-test required and practical test  
Apprenticeship: 1 full lecture module and 1 practical skill

# Instructor Curriculum

## 1955 Rescuing the Rescuer

Prerequisites: 1139 course and be 1153 Instructor  
IOW Contents: 8 hours, review of course materials and skills, pre-test required and practical test  
Apprenticeship: 16 hours to include 1 full lecture module and 4 practical skills

## 1960 Truck Company and Support Ops

Prerequisites: 1160 course and be 1153 Instructor  
IOW Contents: 4 hours, review of course materials and skills, pre-test required  
Apprenticeship: 1 full lecture module

## 8918 Positive Pressure Ventilation

Prerequisites: 8118 course  
IOW Contents: 3 hours, review of course materials  
Apprenticeship: None

### DRIVER-OPERATOR CURRICULUM

## 1925 Fire Department Pumper Testing

Prerequisites: 1225 course and be 1220 Instructor  
IOW Contents: 8 hours, review of course materials and skills  
Apprenticeship: 1 full lecture module and all practical skills

## 1950 Basic Aerial Operations

Prerequisites: 1250 course and be 1210 Instructor  
IOW Contents: 4 hours, review of course materials and skills, pre-test required  
Apprenticeship: 1 full lecture module and all practical skills

## 1995 Pump Operations II

Prerequisites: 1221 course and be 1210 and 1220 Instructor  
IOW Contents: 8 hours, review of course materials and skills, pre-test required and practical test  
Apprenticeship: 1 full lecture module and all practical skills

## 1997 Emergency Vehicle Driver Training

Prerequisites: 1210 course  
IOW Contents: 8 hours, review of course materials, setup procedures and skills, pre-test required  
Apprenticeship: 1 full lecture module, 2 practical skills, and setup one skill station

## 1998 Pump Operations I

Prerequisites: 1220 course and be 1210 Instructor  
IOW Contents: 8 hours, review of course materials and skills, pre-test required  
Apprenticeship: 1 full lecture module, 1 practical skill and 1 friction loss classroom

## FIRE OFFICER CURRICULUM

- 2900 Fire Officer I  
Prerequisites: Fire Officer I Certification  
IOW Contents: 8 hours, review of course materials and activities, pre-test required  
Apprenticeship: 1 full lecture module and 2 class activities
- 2902 Fire Officer II  
Prerequisites: Fire Officer II Certification, Fire Officer I Instructor  
IOW Contents: 8 hours, review of course materials and skills, pre-test required  
Apprenticeship: 1 full lecture module and all activities
- 2913 Supervision: Personal Effectiveness  
Prerequisites: 2113 course  
IOW Contents: 4 hours, review of course materials and activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2914 Supervision: Team Effectiveness  
Prerequisites: 2114 course  
IOW Contents: 4 hours, review of course materials and activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2915 Introduction to Volunteer Emergency Services Management  
Prerequisites: 2117 course, or 2 of Leadership / Command IOWS  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2918 Preparation for Initial Company Operations  
Prerequisites: 2118 course  
IOW Contents: 4 hours, review of course materials and activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2919 Strategies and Tactics for Initial Company Operations  
Prerequisites: 2119 course  
IOW Contents: 4 hours, review of course materials and activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2928 FF Safety and Survival: The Company Officer's Responsibility  
Prerequisites: 2128 course  
IOW Contents: 4 hours, review of course materials and activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2930 Principles of Building Construction: Non-combustible and Fire Resistive  
Prerequisites: 2130 course  
IOW Contents: 4 hours, review of course materials and activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity

# Instructor Curriculum

- 2932 Principles of Building Construction: Combustible**  
Prerequisites: 2132 course  
IOW Contents: 4 hours, review of course materials and activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2944 Incident Command for High-Rise Operations**  
Prerequisites: 2144 course and be 2147 Instructor  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2945 Incident Command for Structural Collapse Operations**  
Prerequisites: 2145 course and be 2147 Instructor  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2947 NIMS - ICS for the Fire Service**  
Prerequisites: 2147 course  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2948 Introduction to Unified Command**  
Prerequisites: 2148 course and be 2147 Instructor  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2950 Incident Safety Officer**  
Prerequisites: 2150 course  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2951 Health and Safety Officer**  
Prerequisites: 2151 course  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2958 I-300 Intermediate ICS**  
Prerequisites: 2153 course and 2147 Instructor  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2959 I-400 Advanced ICS**  
Prerequisites: 2153 course and 2147 Instructor  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity

# Instructor Curriculum

- 2960 Decision Making for Initial Company Operations  
Prerequisites: 2121 course  
IOW Contents: Overview of SCFA Facilities, 4 hours, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2971 Leadership I: Company Success  
Prerequisites: 2171 course  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2972 Leadership II: Personal Success  
Prerequisites: 2172 course  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2973 Leadership III: Supervisory Success  
Prerequisites: 2173 course  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2975 Managing in A Changing Environment  
Prerequisites: 2175 course  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- 2976 Shaping the Future  
Prerequisites: 2176 course  
IOW Contents: 4 hours, review of course materials, activities, pre-test required  
Apprenticeship: 1 full lecture module and 1 class activity
- HAZARDOUS MATERIALS CURRICULUM**
- 2922 Haz-Mat: Operations  
Prerequisites: 2722 course and be 1152 Instructor  
IOW Contents: 8 hours, review of course materials, skills, pre-test required and practical test  
Apprenticeship: 1 full lecture module and 2 practical skills
- 2923 OSHA Haz-Mat Technician  
Prerequisites: 2723 course and be 2722 Instructor  
IOW Contents: 16 hours, review of course materials, skills, pre-test required and practical test  
Apprenticeship: 6 hours lecture module (2 hours must come from R&I Section) 2 practical skills
- 2936 Emergency Response to Chlorine Incidents  
Prerequisites: 2736 course and be 2723 Instructor  
IOW Contents: 8 hours, review of course materials, skills, pre-test required and practical test  
Apprenticeship: 1 full lecture module and 1 practical skills

# Instructor Curriculum

## INSPECTION AND INVESTIGATION CURRICULUM

### 3924 Arson Detection for First Responders

Prerequisites: 3224 course and be I152 Instructor

IOW Contents: 4 hours, review of course materials, activities, pre-test required

Apprenticeship: 1 full lecture module and 1 class activity

## RESCUE CURRICULUM

### 3910 Rope Rescue Operations

Prerequisites: 3310 course

IOW Contents: 4 hours, review of course materials, skills, pre-test required and practical test

Apprenticeship: 1 full lecture module and all practical skills

### 3912 Trench Rescue I (TO BE DETERMINED)

Prerequisites: 3312 course and be 3310 Instructor

IOW Contents:

Apprenticeship:

### 3916 Rope Rescue Operations - High Angle Level I

Prerequisites: 3316 course, 3310 Instructor

IOW Contents: 8 hours, review of course materials, skills, pre-test required

Apprenticeship: 1 full lecture module and all practical skills

### 3930 Basic Auto Extrication

Prerequisites: 3330 course

IOW Contents: 4 hours, review of course materials, skills, pre-test required and practical test

Apprenticeship: 1 full lecture module and 4 practical skills (2 hand tools / 2- hydraulic)

### 3950 Water Rescue Operations (TO BE DETERMINED)

Prerequisites: 3350 course and be 3310 Instructor

IOW Contents:

Apprenticeship:

### 3962 US&R Building Collapse (TO BE DETERMINED)

Prerequisites: 3362 course and be 3310 Instructor

IOW Contents:

Apprenticeship:

### 3964 US&R Lifting & Rigging Heavy Objects (TO BE DETERMINED)

Prerequisites: 3364 course and be 3310 and 3362 Instructor

IOW Contents:

Apprenticeship:

### 3966 US&R Breaching/Breaking/Cutting & Burning (TO BE DETERMINED)

Prerequisites: 3366 course and be 3310 and 3362 Instructor

IOW Contents:

Apprenticeship:

# Instructor Curriculum

- 3968 US&R Technical Search (TO BE DETERMINED)  
Prerequisites: 3368 course and be 3310 and 3362 Instructor  
IOW Contents:  
Apprenticeship:
- 3990 Confined Space Entry Operations  
Prerequisites: 3390 and as 3310 Instructor  
IOW Contents: 8 hours, review of course materials, skills, pre-test required and practical test  
Apprenticeship: 1 full lecture module and all practical skills
- 3992 Confined Space Rescue I  
Prerequisites: 3392 course and be 3390 Instructor  
IOW Contents: 4 hours, review of course materials, skills, pre-test required and practical test  
Apprenticeship: 1 full lecture module, and all practical skills

## INSTRUCTOR CURRICULUM

- 4965 Fire and Life Safety Educator  
Prerequisites: 4165 course  
IOW Contents: 6 hours, review of course materials, and student evaluations, pre-test required and demonstration of effective teaching evaluation  
Apprenticeship: 1 full lecture modules and 1 practical skills evaluation
- 4971 Fire Instructor I  
Prerequisites: Verification of 5 years instructional experience and Fire Academy approval  
IOW Contents: 8 hours, review of course materials, and student evaluations, pre-test required and demonstration of effective teaching evaluation  
Apprenticeship: 2 full lecture modules, and 2 practical skills evaluations
- 4972 Fire Instructor II  
Prerequisites: Fire Instructor II Certification, Fire Instructor I Trainer and Fire Academy approval  
IOW Contents: 8 hours, review of course materials, and student evaluations and demonstration of effective teaching evaluation  
Apprenticeship: 2 full lecture modules, and 2 practical skills evaluations

# Certification

## Fire Service Professional Certification

The South Carolina Fire Academy was initially accredited in five separate occupational certification areas for municipal fire service personnel by the International Fire Service Accreditation Congress (IFSAC). Current certification levels include:

NFPA 472 - Hazardous Materials Awareness  
NFPA 472 - Hazardous Materials Operations  
NFPA 1001 - Firefighter I  
NFPA 1001 - Firefighter II  
NFPA 1002 - Driver / Operator - Pumper  
NFPA 1002 - Driver / Operator - ARFF  
NFPA 1002 - Driver / Operator - Aerial  
NFPA 1002 - Driver Operator - Mobile Water Supply  
NFPA 1003 - Airport Firefighter  
NFPA 1021 - Fire Officer I  
NFPA 1021 - Fire Officer II  
NFPA 1031 - Fire Inspector I  
NFPA 1035 - Fire and Life Safety Educator I  
NFPA 1035 - Juvenile Fire Setter Intervention Specialist I  
NFPA 1041 - Instructor I  
NFPA 1041 - Instructor II

Membership in IFSAC currently consists of more than 80 organizations, including more than 40 states, the U.S. Department of Defense and armed forces branches, the Canadian Department of Defense and other organizations around the world. South Carolina is one of only three states not grandfathered into the system. Reciprocity is available for IFSAC certificates issued by other accredited entities.

The practical and written portions of certification exams are administered in connection with SCFA training programs that are accredited.

Separate written certification testing is offered throughout the state during the year. **Due to the need for verification of prerequisite courses, pre-registration is required, and walk-in registration will not be allowed for written certification exams.** Certification is offered to eligible South Carolina public fire service members at no cost.

The SCFA is proud that its certification system has been accredited by an international group of fire service professionals. This accreditation guarantees that training and certification testing conducted by the SCFA has met national standards, and the services SCFA students receive meet the highest caliber and represent current training requirements.

To register for a certification exam:

1. Complete a Fire Academy registration form.
2. Indicate on the form which exam you wish to take by listing the course code, section number and title.
3. Include copies of required support documents, such as CPR, First Aid and/or copies of equivalency certificates (such as a copy of your equivalency letter for Hazardous Material Ops-level training, if required).

Copies of your SCFA pocket cards or certificates do not need to be mailed with your preregistration.

## Preparing for Written Certification Exams

The written exam for each certification level contains 50 to 100 multiple choice questions. One hour per 50 questions is allotted for each exam. A minimum score of 70 percent is required for successful completion. Students scoring less than 70 percent will be eligible to apply for retesting after 30 days from the test date.

Each certification exam is based entirely and solely on the NFPA standard for that level. For example, to prepare for the Firefighter I exam, candidates should review the NFPA 1001 - Level I standard. For further reference and to obtain more content information, review the Fire Academy student manuals. Students should also carefully review IFSTA manuals or other authoritative manuals from Jones and Bartlett, Delmar Publishers and Brady books related to the certification level. This includes the IFSTA Essentials of Firefighting - 5th edition. A certification test may reference more than one manual, and students should again refer to the standard for the specific information that will be tested.

For the Instructor I exam, the NFPA 1041 - Level I standard identifies the objectives to be tested. The IFSTA Instructor Manual is a good reference for preparation. Fire Officer I exams reference the NFPA 1021 - Level I standard. The IFSTA Company Officer Manual and the ICS manual are excellent sources for study. In addition, several NFA courses address parts of the standard, although no one course is fully comprehensive. NFPA 1002 - Driver/Operator - Pumper, Chapters 4 and 5, identify the objectives that the Apparatus Driver-Operator - Pumper exam will cover. The Fire Academy courses on Emergency Vehicle Driver Training and Pump Operations I and II address most of these objectives. The IFSTA Fire Department Pumping Apparatus Manual and Water Supplies Manual are also good study references. Since the philosophy of a certification exam is to measure the overall knowledge of a student within a specific occupational area as well as the depth of that knowledge, students should fully prepare for the examination. Many test questions will be quite specific and detailed to a particular skill or task. There are a number of test preparation texts and programs available, and while these are neither required nor endorsed, they would help a student to identify strengths and weaknesses and to further prepare for the examination process.

## Sample Questions

### FIREFIGHTER I

1. The impact force of suddenly stopping the movement of water in a hose line is called:
  - a. static energy absorption
  - b. water hammer
  - c. flow pressure
  - d. residual pressure
2. Heat generated through the process of rapid oxidation is known as:
  - a. heat of solution
  - b. heat of decomposition
  - c. heat of combustion
  - d. spontaneous heating

# Certification

## FIREFIGHTER II

1. A room is 20x50 feet, 10 feet high. Assuming full involvement, how much water would theoretically be needed to extinguish the fire?
  - a. 100 GPM
  - b. 300 GPM
  - c. 500 GPM
  - d. 1000 GPM
2. The control valve for a sprinkler system may be located at the system or outside the building. The valve should always be a/an:
  - a. check valve
  - b. indicating type valve
  - c. non-indicating type valve
  - d. quarter-turn valve

## INSTRUCTOR I

1. Preparation, presentation, application and evaluation are four steps in the:
  - a. Learning process
  - b. Teaching process
  - c. Evaluation process
  - d. Communication theory
2. The best way for an instructor to overcome the distractions of outdoor training activities and achieve control is through:
  - a. encouraging the students to express themselves
  - b. proper preparation
  - c. repetition
  - d. student involvement

## DRIVER/OPERATOR

1. While they are no longer used as a main supply pump, \_\_\_\_\_ pumps are commonly used as priming pumps.
  - a. centrifugal
  - b. piston
  - c. rotary gear
  - d. pressure
2. The friction loss in 200 feet of 2 1/2-inch fire hose, with a flow of 90 gpm, is nearly:
  - a. 1.62 psi
  - b. 2.07 psi
  - c. 4.14 psi
  - d. 8.28 psi

## HAZARDOUS MATERIALS OPERATIONS

1. The primary hazard of a DOT Hazard Class 7 material is:
  - a. radiation
  - b. spontaneously combustible
  - c. oxidation
  - d. poison

2. The NFPA 704 System indicates a:
  - a. relative risk
  - b. product's chemical name
  - c. four-digit number
  - d. number used to look up the name of the product

## **Preparing for a Practical Certification Exam**

Practical certification exams are conducted at the conclusion of certain courses. The Firefighter I Practical Certification Exam is conducted at the conclusion of course 1153 - NFPA Firefighter I. The Firefighter II Practical Certification Exam is conducted at the conclusion of course 1154 - NFPA Firefighter II; the 1002 - Driver/Operator - Pumper practical exams are given at the conclusion of courses 1220 - Pump Operations I, 1221 - Pump Operations II and course 1210 - Emergency Vehicle Driver Training and the practical exam for Instructor I is conducted at the end of course 4171 - Fire Instructor I.

Based on this evaluation method, these courses are prerequisites to completing the written certification examination. Students who are successful in the course should be prepared to take the practical skills exam. However, since the practical skills examinations contain several objectives, which they may be asked to perform, students should be prepared to perform all of the manipulative or practical objectives listed in the NFPA standard for that certification level. All practical skills tests are graded on a pass/fail system with a passing score required for successful completion of the certification exam. Passing means that the student performed the skill correctly, while failing means that the student performed the skill unsafe or to the point of being ineffective. Each student will be given two attempts to perform each required skill during the same test session. Should the student not receive a pass rating on the initial attempt, he/she will be eligible for an immediate second attempt. Students will be retested only on the skill that was not performed satisfactorily after two attempts. One retest opportunity is allowed for students failing to meet the minimum score for a practical skills exam. Any student failing to complete the second attempt will be required to retest the failed skill at a later date. The student must wait at least 30 days before retesting. Failing the retest means that the student must retake the training program before being eligible for retesting again.

## **Appeals Policy**

It is the policy of the South Carolina Fire Academy to make testing and certifying services available to all of its constituents without regard to race, sex, religion or ethnic origin.

## **Certification Appeals Policy**

The SCFA has developed an Appeals Policy to ensure participants are provided an orderly and systematic means whereby they may present and seek answers to appeals concerning our testing and/or certification procedures without fear of restraint, coercion or reprisal. Students are eligible to initiate action in this process based on certain conditions. Copies of appeals process in AP-11 are available upon request.

# Certification

## Challenge Examination Prerequisites

The table below illustrates the certification examinations, prerequisite certifications and prerequisite courses and equivalencies (where applicable) for the 14 occupational certification levels currently offered by the SCFA. Participants must show their Certification Confirmation form and a picture ID to be admitted to the exam site.

Certification Exam Title	Prior Certification Requirement	Course Prerequisites
Instructor I Course 4500	None	1. 4161 - Fire Instructor I or training equivalent to NFPA 1041, level I
Firefighter I Course 4501	None	1. 1152 - Fundamentals of Firefighting 2. 2728 - Hazardous Materials Operations 3. 1153 - NFPA Firefighter I or training equivalent to NFPA 1001 Ch. 5 4. First Aid and CPR Certification
Firefighter II Course 4502	NFPA Firefighter I Certification	1. 3330 - Basic Auto Extrication 2. 1154 - NFPA Firefighter II or training equivalent to NFPA 1001 Ch. 6
Driver/Operator - Pumper Course 4503	NFPA Firefighter I Certification	1. 1210 - EVDT 2. 1220 - Pump Operations I 3. 1221 - Pump Operations II 4. EVDT Skill 4.7 (Local Area Test Form) must accompany registration for examination or training equivalent to NFPA 1002 Ch. 4 & 5
Fire Officer I Course 4504	NFPA Firefighter II and NFPA Fire Instructor I Certification	1. 2100 - Fire Officer I or training equivalent to NFPA 1021 Ch. 4
Fire Officer II Course 4519	NFPA Fire Officer I Certification	1. 2102 - Fire Officer II or training equivalent to NFPA 1021 Ch. 5
Airport Firefighter Course 4505	NFPA Firefighter II Certification	1. 3400 - Airport Firefighter or training equivalent to NFPA 1003 Ch. 6
Haz Mat Awareness Course 4520	None	1. 2727 - Haz Mat Awareness or 2722 Haz Mat Operations.
Haz Mat Operations Course 4506	NFPA Hazardous Materials Awareness	1. 1136 - Flammable Liquids and Gas and 2722 Hazmat operations or 2. 2728 - Hazmat Operations or training equivalent to NFPA 472 Ch. 4, 5 and section 6.2, 6.6
Fire Inspector I Course 4507	None	1. 3226 - NFPA Fire Inspector I or training equivalent to NFPA 1031 Ch. 4
Driver/Operator - ARFF Course 4508	NFPA Firefighter II NFPA Airport Firefighter	1. Training equivalent to NFPA 1002 Ch. 4 & 9
Fire & Life Safety Educator I Course 4514	None	1. 4165 - Fire & Life Safety Educator I or training equivalent to NFPA 1035 Ch. 5
Driver/Operator - Aerial Course 4515	NFPA Firefighter I Certification	1. 1210 - EVDT 2. 1250 - Aerial Operations 3. EVDT Skill 4.6, 4.7 (Local Area Test Form) must accompany registration for examination or training equivalent to NFPA 1002 Ch. 4 & 6
Driver/Operator - Mobile Water Supply Course 4516	NFPA Firefighter I Certification	1. 1210 - EVDT 2. 1220 - Pump Operations I 3. 1221 - Pump Operations II 4. EVDT Skill 4.7 (Local Area Test Form) must accompany registration for examination or training equivalent to NFPA 1002 Ch. 4 & 10
Fire Instructor II Course 4517	NFPA Fire Instructor I Certification	1. 4172 - Fire Instructor II or training equivalent to NFPA 1041 Ch. 5
Juvenile Fire setter Intervention Specialist I Course 4518	None	1. NFA course 626 - Juvenile Fire setter Intervention Specialist I or training equivalent to NFPA 1035 Ch. 4

For information on equivalency requirements and procedures, contact A.J. Esposito, Certification and Accreditation Supervisor, via e-mail at [esposito@llr.sc.gov](mailto:esposito@llr.sc.gov) or (803) 896-9881.

## Regional Office Addresses

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 (864)271-1216(864)241-0498 - fax

### 2 - Rock Hill Region

Bernard Smalley, Coordinator  
 2151 Ogden Rd.  
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### 3/4 - Florence Region

Duane Cassidy, Region 3/4 Coordinator  
 216 Dozier Boulevard  
 Florence, SC 29501  
 (843)664-0682 (843)664-0836 - fax

### 5- Charleston Region

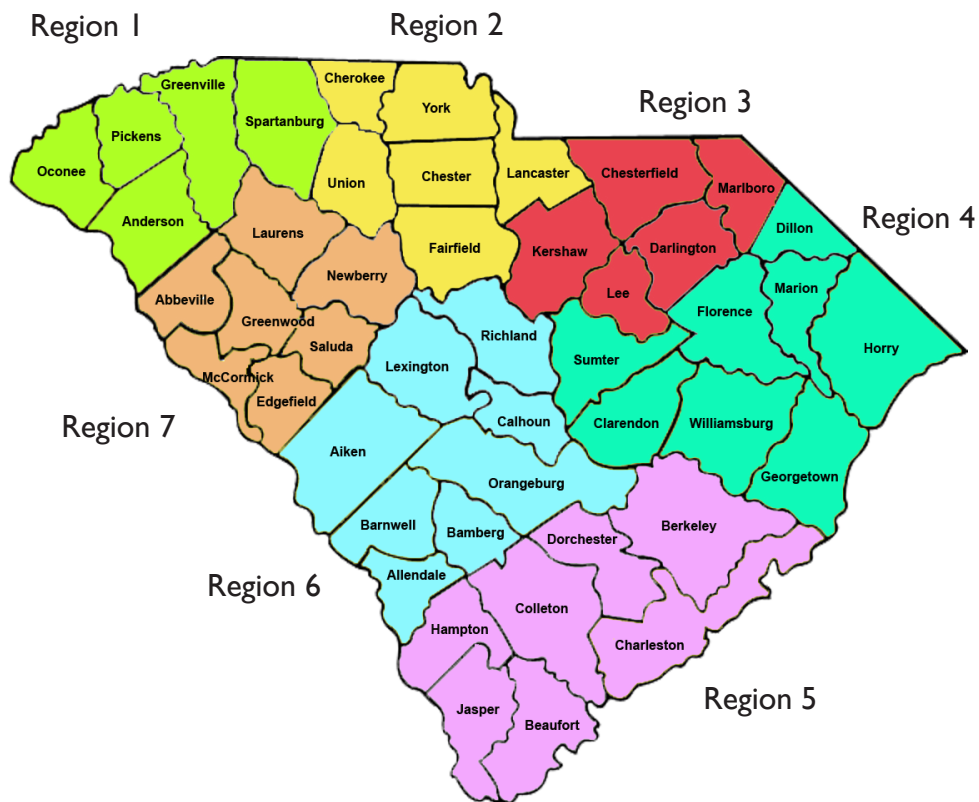
Dee Marett, Coordinator  
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 N. Charleston, SC 29418  
 (843)552-6269 (843)552-9483 - fax

### 6 - Midlands Region

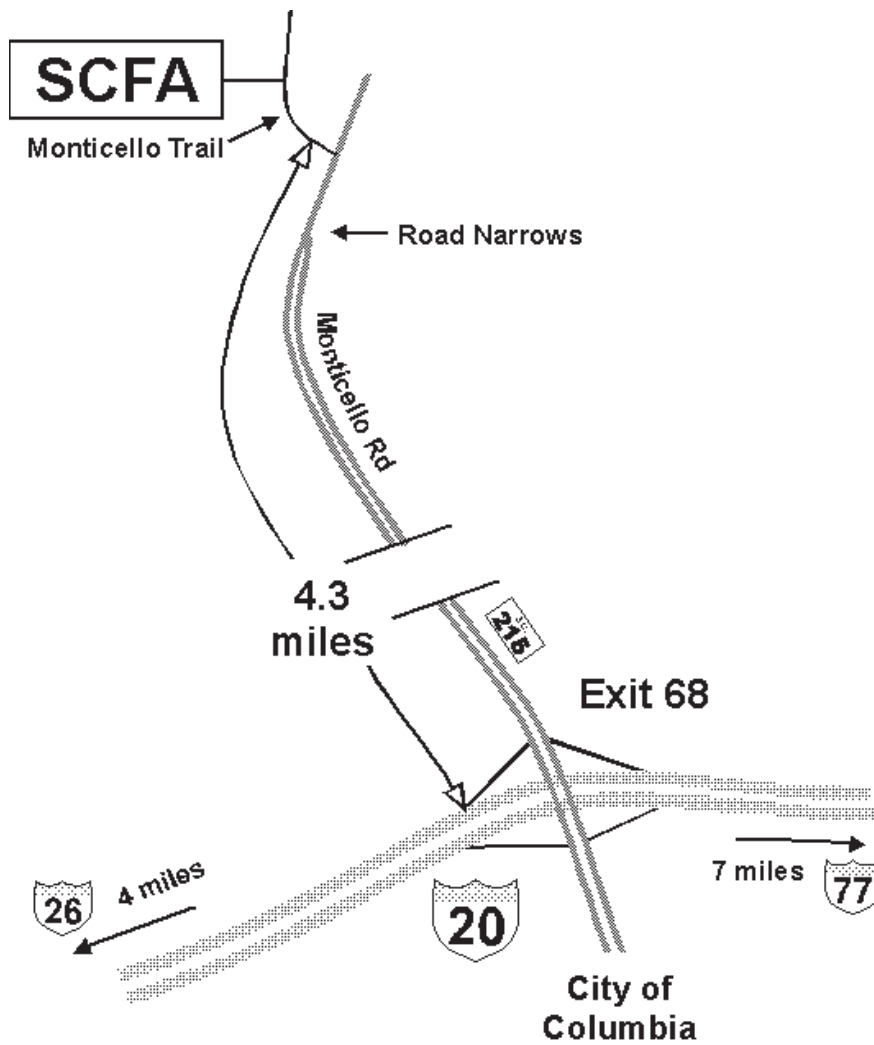
Keith Rucker, Coordinator  
 141 Monticello Trail  
 Columbia, SC 29203  
 (803)896-9861 (803)896-9856 - fax

### 7 - Greenwood Region

Ted Martin, Coordinator  
 201 Oakwood Dr.  
 Greenwood, SC 29649  
 (864)227-3233 (864)227-1293 - fax



# Directions to the SCFA



# Fire Academy Staff

<b>Superintendent (Interim)</b> .....	Russ Friar .....	803-896-9870
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Regional Registrar .....	Karen Rivera.....	803-896-9810
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<b>Instructor Services Coordinator</b> .....	J. Strohecker.....	803-896-9899
<b>Curriculum Supervisor</b> .....	Chris Growley.....	803-896-9906
Special Projects Coordinator .....	Emory Johnson.....	803-896-9836
Curriculum Developer .....	Clarence Bennett .....	803-896-5929
Curriculum Developer .....	Rick Dunn.....	803-896-9078
Curriculum Developer .....	Shelia Busby .....	803-896-5143
Curriculum Developer .....	Mike Dunlap.....	803-896-9842
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Media Specialist.....	Holt Black.....	803-896-9852
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Resident Scheduler.....	Tammy Rowe.....	803-896-9895
Resident Registrar .....	Gloria Evans .....	803-896-9859
Dorm Coordinator .....	Stan Williams .....	803-896-9840
<b>Special Operations Supervisor</b> .....	Lenny Busby .....	803-896-9835
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.....	Sean Davis.....	803-896-9813
.....	Perry Bailey.....	803-896-9872
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Resident Training Staff.....	Tony Ferriera.....	803-896-9874
.....	Rob Chavious.....	803-896-9846
.....	Greg Gerber.....	803-896-7493
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Facility Support Staff .....	Robbie Lester.....	803-896-9886
Facility Support Staff .....	Paul Wessinger .....	803-896-9896
Facility Support Staff .....	Roger Moore .....	803-896-4387
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Region 3/4 Coordinator.....	Duane Cassidy.....	843-664-0932
Region 3/4 Administrative Assistant.....	Caren Canup .....	864-664-0682
Region 5 Coordinator .....	Dee Marett.....	843-552-6269
Region 5 Administrative Assistant.....	Amy Williamson .....	843-552-6217
Region 6 Coordinator .....	Keith Rucker .....	803-896-9861
Region 7 Coordinator .....	Ted Martin .....	864-227-3233
<b>Cafeteria Manager</b> .....	Ray Williams.....	803-896-9898
Cafeteria Assitant.....	Jack White .....	803-896-9898
<b>Toll Free</b> .....		<b>800-896-1070</b>
<b>Fire Academy Cancellation Line</b> .....		<b>803-896-9804</b>
<b>Receptionist</b> .....		<b>803-896-9800</b>
<b>Academy Fax</b> .....		<b>803-896-9856</b>

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Dr. Denis Onieal, Superintendent  
National Fire Academy

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### S-190 Introduction to Wildland Fire Behavior (Q900)

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#### LINK OF INTEREST

### I-100: Introduction to the Incident Command System

Developed by the National Wildfire Coordination Group, this course introduces students to the basics of ICS. Participation in this course will help ensure the student is prepared to operate in an ICS environment. [Take This Course](#)

S.C. Division of Fire and Life Safety  
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