



SOUTH CAROLINA

# STATE FIRE

## ARFF Training Bulletin

Summer/Fall 2020

### Academy Takes Additional Safety Measures for Training

We have not experienced, in modern history, situations like the COVID-19 pandemic. As first responders, we are accustomed to adapting to new challenges. However, the consequences and challenges of COVID-19 stretch far beyond the health and economic effects. Aircraft Rescue and Firefighting (ARFF) training, as well as other in-person training, has been impacted. Even today, we continue to learn more about this virus, how it is transmitted, and ways to protect our students and instructors from contracting it in classroom and live fire training environments. Our biggest challenge now is how to adapt to a “new normal” and move forward.

Even with the COVID-19 pandemic, our goal remains to be the premier training center for ARFF training. To accomplish this, we provide realistic training. With safety being paramount, our programs will be modified to provide students with the most hands-on training possible. For the immediate future, Academy training classes will decrease in size, more online training will be offered to minimize face-to-face contact, and additional safety precautions will be put in place to protect our students.

Presently, the Academy’s ARFF training facility is closed for live fire training. We are in the process of creating a plan to resume training. Once determined, we will provide our students pertinent information - along with any instituted safety precautions. We are also in contact with the FAA in the Southern Region and are keeping them informed.

Obviously, our training scenarios create events that may occur at any airport. We understand your airport may have unique needs and require specialized training. As such, if our list of scenarios does not meet your needs (prior to arriving for training), with your input we can customize training. This ensures your employees obtain needed training in order to provide an effective response.



The South Carolina Fire Academy also offers the advantage of on-site training in areas such as car fires, structural fire training, HazMat, Rescue, and EMS training. As such, the combination of any type of customized training you may request is almost endless. For your convenience and cost savings, the Academy also has an onsite cafeteria and a newly renovated, modern dormitory.

As we work toward some form of normalcy, we ask you to keep the South Carolina Fire Academy at the top of your list for your ARFF training needs. A special thanks goes to all of our customers, for your patience and understanding as we work through this pandemic.

#### Find us on social media

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



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# ARFF Course Descriptions

**3400 Basic ARFF NFPA 1003** (40 hours): This course provides the firefighter with the knowledge and skills necessary to meet the requirements of NFPA 1003 and FAR 139. The course covers rules and regulations, airport familiarization, aircraft familiarization, aircraft safety, tactical operations, ARFF apparatus, fire suppression, extinguishing agents, PPE, rescue, hazardous materials, communications, and incident command. Skills development segments include practical application of fire suppression techniques and strategies involving landing gear fires, engine nacelle fires, APU fires, fires inside the aircraft, extinguishment of flammable liquids, and 3D flowing fuel fires.

In addition, the firefighter learns ARFF apparatus operations and applies tactical techniques for apparatus placement, modulations, turret management, agent conservation, and strategies for protecting aircraft occupants egress or supporting rescue operations.



**3402 Municipal Fire Department Approach to Aircraft Rescue** (12 hours): This course is designed to expose the firefighter to the unique considerations and hazards associated with responding to an incident involving aircraft or aircraft crashes. Information is provided on a variety of topics including airport familiarization, aircraft construction and terminology, aircraft hazards, hazardous materials associated with aircraft, FAA requirements when responding to aircraft crashes, incident command considerations, extinguishing agents, and other tactical and strategic operations.

**3405 Specialized Aircraft Fire Trainer (SAFT)** (4 hours): This course is an essential part of the Federal Aviation Regulations Part 139 annual live burn refresher training that includes job performance requirements as specified in NFPA 1003, Standard for Airport Firefighter Professional Qualifications, including: fire suppression tactics for aircraft engine nacelle fires, landing gear assembly fires, APU fires, and aircraft interior fires while using ARFF apparatus hand-lines.

**3406 Fuel Spill Burn Trainer (FSBT) ARFF Truck Operations** (4 hours): This course is designed to meet the Federal Aviation Regulations Part 139 annual burn requirement as it pertains to personnel who drive and operate airport firefighting apparatus. It involves detailed instruction in the operation of various types of airport firefighting apparatus and their capabilities, exposes the driver/operator to modulation tactics, crash scene maneuvering, communication protocols, vehicle positioning, extinguishing agent conservation, as well as tactical and strategic considerations concerning crash scene response. The course involves the use of a 13,500 square-foot live burn trainer that simulates flowing and pooled fuel fires potentially found at crash scenes. The FSBT is electronically controlled to simulate small, medium, and large crash site fires and manipulated to mimic effects of appropriate suppression tactics.

**3408 ARFF FAR 139 Refresher SAFT and FSBT** (8 hours): This course is a combination of the 3405 and 3406 courses encompassing aspects of both. It can be customized to suit the training requirements of a specific agency.

**3406 High Reach Extendable Turret (HRET) Training** (2 hours): This short course is designed to expose the ARFF driver/operator to the use and proper deployment of piercing nozzle technology and deployment tactics. The Academy has a piercing prop. It can be automatically adjusted for height and has aircraft window markings to simulate the optimum piercing zone. This course uses Rossenbauer and OshKosh apparatus equipped with HRET piercing nozzles.

**3409 Flammable Liquids** (4 hours): The use of extinguishing agents in combination with water to suppress carbon-based fuel fires is an essential part of the ARFF program's fire suppression training. Aqueous Film Forming Foam (AFFF) is the principle agent used to suppress fires involving aircraft. This course provides the firefighter with practical skills development in the use of AFFF. The firefighter is exposed and required to demonstrate acceptable knowledge and skill in application techniques, foam blanket monitoring, and agent resupply methods as part of the course.

**Customized Training!** The South Carolina Fire Academy can custom design ARFF training programs to meet any airport fire department's requirements. We will design and deliver the most realistic and challenging training course to safely teach firefighters the principles and techniques required to save lives and protect property. Any request for customized training can be scheduled in conjunction with a scheduled training date.

# Basic ARFF Classes Available in 2020

<u>Course Code</u>	<u>Date</u>
3400-21001	August 3-7
3400-21002	August 31-September 4
3400-21003	September 28-October 2
3400-21004	November 9-13
3400-21005	December 7-11

## Registration Checklist:

- Complete a South Carolina Fire Academy registration form. If you do not know your FDID, leave it blank.
- Insert the last five (5) digits of your U.S. Social Security Number (if you have one) in the space labeled "Student ID." If you are from a foreign country, leave it blank.
- Provide the correct course code and dates at the top of the form. The course code is two series of numbers (i.e. 3400-21001).
- Indicate if you need to rent bunker gear (additional \$65) for the training program or if you will be bringing your own. Structural gear is acceptable in the ARFF program.
- Provide the full name, address, contact number, and name of the person or entity who is responsible for course payment. If this information is not provided, registration cannot be processed.
- Sign the release section and date the form accordingly and have your Chief Officer sign where indicated. If you are self-sponsoring, you do not need to include your Chief Officer's signature.
- Attach Firefighter II certification. IFSAC or Pro-Board is acceptable. This registration requirement cannot be waived.

<b>Class Fee:</b>	In-State	\$821
	Out of State	\$944
	Out of Country	\$1294

*Fee includes: class books, dorm room, breakfast and lunch daily.*

**Class Schedule:** Class starts at 8:30 a.m. on the Monday of the training week. Class will be conducted through Friday of the same week up until 5 p.m. The local airport is Columbia Metropolitan Airport (CAE). The Academy is at 141 Monticello Trail in Columbia. Make sure you allow time for flights according to the training schedule. The Academy cannot cut a class short nor make accommodations for travel time.

**Clothing:** No shorts, flip-flops, tank tops, jeans, or other similar apparel can be worn in class. Be sure you have appropriate clothing such as a station uniform, and casual clothing (pants/collared shirt). No facial hair that interferes with the seal of the SCBA is allowed.

**Payment:** An invoice and course confirmation letter is sent to the student/student's agency. Invoice payment instructions are detailed in the confirmation letter. Please make payment by calling Candace Bass at 803-896-9812.

**Contact:**  
**Terrell Brown**  
**(800) 896-1070**  
[SCFA-ARFF@llr.sc.gov](mailto:SCFA-ARFF@llr.sc.gov)

## **FAR 139 Live Burn Training**

Does your agency need annual FAR 139 Live Burn Training? Email us for scheduling!