ARFF **Training Bulletin**

SOUTH CAROLINA
STATE FIRE

Summer 2023

ARFF CUSTOMER SPOTLIGHT

Boeing Fire Department at North Charleston, South Carolina, is the "Home of the 787 Dreamliner" and has used the South Carolina Fire Academy (SCFA) since 2010. The Boeing Charleston team has sent firefighters to the SCFA for initial 40-hour training, and our team has continued to use the SCFA for our annual FAR 139 recertification and live fire burns. The team consists of 25 dedicated individuals who go through this training each year with the help of the SCFA staff. We have been able to tailor our training to include 3-D, LPG, structural, SAFT, and ARFF truck operations to meet our needs.

In recent months, Boeing Fire has selected the Academy as the primary training center for all Boeing firefighters. We have been able to send three of our teammates from around the country to attend the resident ARFF course at the SCFA. They say the SCFA is a spectacular experience. The instructors, hands-on skills, and curriculum have been above and beyond what our teammates expected.

Lt. Rodney Profit, Training Officer
Boeing North Charleston

Joe Charleston, Academy ARFF Program Coordinator, recently visited the Boeing campus in North Charleston.

SC State Fire staff recently took a tour of the Boeing North Charleston campus.

FIVE UPCOMING TRAINING OPPORTUNITIES

The South Carolina Fire Academy's ARFF program is accredited by the International Fire Service Accreditation Congress (IFSAC). The Academy is also an FAA Regional ARFF fire-training center.

Training opportunities (*right*) are available through March 2024.

Upcoming ARFF Classes	
Course Code	**Dates**
3400-24001	August 7-11, 2023
3400-24002	October 2-6, 2023
3400-24003	December 11-15, 2023
3400-24005	January 8-12, 2024
3400-24006	March 4-8, 2024

REGISTRATION CHECKLIST

❑ Complete a <u>SC Fire Academy registration form</u>. If you do not know your FDID, leave it blank.

❑ Insert either your Student ID number previously issued by SC State Fire or the last five (5) digits of your Social Security number (if you have one) in the space labeled "Student ID."

    · If you are from a foreign country, leave it blank.

    · If you are a returning student, your Student ID number is found by logging into your <u>Fire Portal account</u>.

❑ Provide the correct course code and dates at the top of the form. The course code is two series of numbers (i.e. 3400-20001).

❑ 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, 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.

Class Schedule: Each class starts at 8:30 a.m. on the first day. The training week runs through Friday at 5 p.m.

Local Airport: Columbia Metropolitan Airport (CAE) is about 18 miles from campus. The Academy is at 141 Monticello Trail in Columbia, SC. 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.

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

Payment: An invoice and confirmation letter will be sent to the student or the student's agency. Invoice payment instructions are noted in the confirmation letter.

ARFF COURSE DESCRIPTIONS

3400 Basic ARFF NFPA 1003 (*40 hours*): This weeklong 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 and 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 3-D 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 (*16 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): This four-hour 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: This four-hour 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: This eight-hour 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:
This two-hour 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: 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 four-hour 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.

CUSTOM TRAINING: The SC Fire Academy can custom design ARFF training programs to meet any airport fire department's requirements. Staff 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 catalog scheduled training date.

ACADEMY ACCOMMODATIONS

SCFA Dormitory

Students staying overnight enjoy the recently renovated dormitory with hotel-like accommodations and an expanded weight room/gym area. Dormitory rooms are first-come, first-served. Each room has a private bathroom, and linens are provided.

Single and double occupancy is available. Single occupancy is $50/night; double occupancy is $25/night. Please make your room selection during the registration process.

In the event the State Fire Academy's dormitory is full or unavailable, the DoubleTree by Hilton is less than 10 miles away (15 minutes) from the Academy site. Their 2023 rate for students attending classes and events at the Academy is $104 per night, including breakfast. For stays of five nights or more, the rate is $94 per night.

DoubleTree by Hilton Columbia
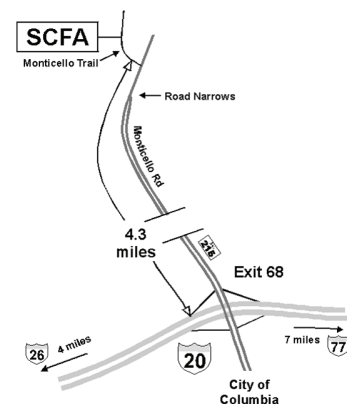2100 Bush River Road
Columbia, South Carolina 29210

Two ways to make your reservation:
1. Call 1-803-731-0300 and mention group: South Carolina State Fire #0002765133, or
2. Utilize convenient online booking.

COLUMBIA CAMPUS

From Interstate 20, take Exit 68 and turn north on Monticello Road (S.C. 215). Travel about 4.3 miles north to Monticello Trail and turn left. (The road will narrow from four to two lanes about ¼ mile before the turnoff.)

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