Fire Sprinkler Training
Columbia, SC
August 17-21, 2015

Obtain NICET-required Continuing Professional Development (CPD) credits and Continuing Education Units (CEU) for Deputy State Fire Marshal recertification in this seminar package hosted by the **South Carolina Fire Sprinkler Assn.**, **SC Department of LLR**, **Division of Fire & Life Safety** (which includes the **SC State Fire Marshal's Office**), and presented by the **American Fire Sprinkler Association**.

LOCATION

South Carolina Fire Academy
141 Monticello Trail • Columbia, SC
Phone: (803) 896-9895
Fire Academy Dress Code: No short pants allowed.

Continuing Education Credits

0.1 CEU for each 1 hour of instruction
1.0 NICET-CPD for each 1 hour of instruction

Class Times: 8:00a – 5:00p

USE THIS FORM 1 REGISTER FOR CLASSES

Use Form 2 to select books, meals, & dorm reservations.

Fees shown below are advance rates. If registering after Aug. 7, add $20 per class to rates shown below.

	AHJ	AFSA Member	NonMember
Monday, Aug. 17			
NFPA 20, 2013 Ed.	__$75	__$95	__$145
Tuesday, Aug. 18			
Hydraulic Calculations	__$75	__$95	__$145
Wed-Thurs., Aug. 19-20			
NFPA 13, 2013 Ed. Two Days	__$140	__$160	__$210
Friday, Aug. 21			
Fire Sprinkler Plans Review	__$75	__$95	__$145

Send check payment to: AFSA • c/o Wells Fargo Bank • PO Box 200201 • Dallas, TX 75320-0201
Fax registration forms with credit card information or Purchase Order to AFSA at (214) 343-8898.

Name _____
Company _____
Address _____
City/ST/Zip _____
Phone _____ Fax _____
Cell Phone (in case of emergency) _____
Email _____

Grand Total (of Forms 1 & 2) **$**_____
MasterCard/Visa/American Express Card Number:
_____
Exp. Date: _____ Security Code (*3 or 4 digit #*): _____
Zip Code (*associated w/ billing address*): _____
Name on Card: _____
Signature: _____

Classes subject to minimum registration. For more information contact Maricarmen Martinez.
mmartinez@firesprinkler.org • (214) 349-5965 x132

USE THIS FORM 2 TO SELECT:

- NFPA STANDARDS
- MEALS
- DORM RESERVATIONS @ THE ACADEMY

To maintain accuracy, use one form per person when purchasing classes, books, meals, and/or dorms. Use Form 1 to enter payment and total for both Forms 1 and 2.

Student Name: _____

Student Email: _____

NFPA BOOKS

_____$86 NFPA 13, 2013 Ed.

_____$50 NFPA 20, 2013 Ed.

_____$28 Pocket Guide to Sprinkler System Installation, 2010 Ed.

All participants are strongly encouraged to bring the applicable NFPA standard with you to class. These classes focus heavily on NFPA standards and will reference numerous NFPA figures and tables. Images from the NFPA standards will rarely be made available to you by the instructor or in class materials. It is very helpful to bring the standard with you to class to refer to as the instructor leads.

MEALS	BREAKFAST	LUNCH
Monday	___$6	___$7
Tuesday	___$6	___$7
Wednesday	___$6	___$7
Thursday	___$6	___$7
Friday	___$6	___$7

DORMS	SINGLE	DOUBLE
Sunday 8/16	___$30	___$15
Monday 8/17	___$30	___$15
Tuesday 8/18	___$30	___$15
Wednesday 8/19	___$30	___$15
Thursday 8/20	___$30	___$15

Monday, August 17 **NFPA 20, 2013 Ed.**

This 8-hour seminar focuses on the installation of stationary fire pumps and the requirements of the 2013 edition of *NFPA 20*. Pump basics are reviewed along with an extensive discussion regarding the sizing of fire pumps. Electric motor and diesel engine drivers are examined in depth along with their associated controllers. The installation requirements for fire pumps are also reviewed. Upon completion of this course, participants should be able to: explain the organization of *NFPA 20* and the basic pump principles; locate and apply the installation requirements for stationary fire pumps, drivers, and controllers; size fire pumps for the most economical application(s). This seminar benefits anyone who specifies, installs, or inspects stationary fire pumps.

Required materials to bring: *NFPA 20* (2013 Ed.) standard

Tuesday, Aug. 18 **Hydraulic Calculations**

Understanding the principles of hydraulic calculations is at the core of estimating, design, and system approval. This 8-hour seminar takes the attendee through the basics of hydraulic design including hazard analysis, design methods, criteria selection, water supplies, sprinkler flow and pressure, friction loss, and pressure balancing. The attendees follow a step-by-step hydraulic calculation of a simple tree system to illustrate each principle. Due to the limited time, attendees are required to bring a basic scientific calculator and possess an understanding of how to use the function keys. This seminar will benefit engineers, plan reviewers, and layout technicians, particularly those working towards NICET certification.

Wed-Thurs, Aug. 19-20 **NFPA 13 (2013 Ed.) Installation of Sprinkler Systems - 2 Days**

This 2-day seminar is a comprehensive review of the latest edition of *NFPA 13*. Attendees participate in an extensive examination of the standard with an emphasis on locating, interpreting, and applying the various requirements, including: hazard classification, system types, components, and installation requirements. Additionally, water supplies, design deliverables, and acceptance testing are addressed with an emphasis on their practical application. Upon completion of this course, the participant should be able to explain the organization of the standard; locate and apply the basic requirements; and interpret and apply terms as defined by the standard. This seminar benefits contractors, engineers, layout technicians, and AHJs.

Required materials to bring: *NFPA 13* (2013 Ed.) standard

Friday, Aug. 21 **Fire Sprinkler Systems Plans Review**

This seminar has been developed to give attendees core training and an introduction to the process of reading, interpreting and determining the compliance of fire sprinkler systems plans and hydraulic calculations with the applicable codes and standards for design and installation. The process involves a review of the knowledge of various topics contained in the 2013 edition of NFPA 13, *Standard for the Installation of Sprinkler Systems*. The recent expansion of *NFPA 13* requires a more detailed approach to plans review. Discussion and information provided will include topics such as identification of various construction types, commodity classes, occupancy hazards, system types, and sprinklers themselves. This seminar relies heavily on class participation utilizing several class exercises to: 1) determine coverage areas for various sprinkler spacings & resulting minimum water discharge, 2) calculate the math necessary to interpret water flow test results, 3) perform a sample plan with supporting hydraulic calculations, followed by a review & discussion of deficiencies. Upon completion of this seminar, participants should be able to interpret compliance of fire sprinkler systems plans and hydraulic calculations; identify coverage area maximums and sprinkler locations; describe potential plan deficiencies. Plan reviewers, fire inspectors, insurance representatives, architects, system layout technicians, and engineers will all find this to be a very beneficial learning experience.

Required materials to bring: *NFPA 13* (2013 Ed.) standard, architectural scale, calculator with exponential math capabilities.

DIRECTIONS to the Academy can be found here:
http://www.scfa.state.sc.us/InsideSCFA/index.asp?file=direct.htm

NICET

To find out if you can claim **NICET** CPD points for these courses, please review Section II.B of NICET's recertification policy here: http://www.nicet.org/about-us/policies/policy30/