

# Continuing Education Seminars in Haw River, NC

## Receive NICET Continuing Professional Development Credit

### November 16<sup>th</sup> – 20<sup>th</sup>, 2020

Get valuable Continuing Professional Development credits for NICET.  
Hosted by Umpire Technologies Group, Incorporated and presented by the AFSA Carolinas Chapter.

**Location:**

**Vailtree Event & Conference Center**  
1567 Bakatsias Lane  
Haw River, NC 27258 (same location as last year)

**Classes Start At 9:00 AM Each Day.**  
Anyone Arriving More Than 10 Minutes Late MAY NOT Be Admitted.  
**Picture ID Required For Admission.**  
**All Seminars Include A Catered Lunch.**

**Continuing Education Credits**

NICET – 1.0 CPD for each hour of instruction.

**CLASS SIZE IS LIMITED. SIGN UP EARLY.**

**BRING YOUR OWN FACE MASK – REQUIRED!**

By registering for a seminar, you agree to abide by the Vailtree COVID safety protocols. At a minimum expect temperature check, face mask, and social distancing.

**Seminar Schedule and Registration Fee** (check your category, **Membership will be verified!!**)  
All fees shown below are ADVANCE rates. **If you pay at the door, add \$20 for LATE fees.**

		<b>AHJ</b>	<b>AFSA Member</b>	<b>Non-Member</b>
Mon .. 11/16/20:	<u>NFPA 20 Fire Pumps</u>	___ \$85	___ \$135	___ \$235
Tue ... 11/17/20:	<u>NFPA 25 Inspections (ITM)</u>	___ \$85	___ \$135	___ \$235
Wed . 11/18/20:	<u>NFPA 13/13R/13D, Attics</u>	___ \$85	___ \$135	___ \$235
Thu ... 11/19/20:	<u>NFPA 13 Design Approach</u>	___ \$85	___ \$135	___ \$235
Fri ..... 11/20/20:	<u>NFPA 13R, Seismic Update</u>	___ \$85	___ \$135	___ \$235

**All courses provide NICET CPD credits! See the course descriptions on the second page!**  
**Additional registration forms may be downloaded at [www.afsacarolinaschapter.com](http://www.afsacarolinaschapter.com)**

The appropriate NFPA standard (or code book) & a calculator are strongly suggested for all seminars and are the responsibility of the attendee. Standards and code books WILL NOT be available for purchase at the seminars.

If paying at the door, only cash or checks accepted – no credit cards. **Payment at the door will not guarantee a seat in class.**

**Please send check payment to:** Umpire Technologies Group, PO Box 459, Pleasant Garden, NC 27313  
Fax registration form with credit card information to Umpire Technologies Group at (336) 674-2976.  
**Registrations that are illegible or incomplete will be discarded. INCLUDE A VALID EMAIL ADDRESS FOR CONFIRMATION!**

Name \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
City/State/Zip \_\_\_\_\_  
Phone \_\_\_\_\_ Fax \_\_\_\_\_  
Home Phone (in case of emergency) \_\_\_\_\_  
Email \_\_\_\_\_  
NC License / PE / NICET Number \_\_\_\_\_

**Confirmation:** If your registration is received at least one day prior to the start of your seminar, you will receive an email confirmation.

Payment: Check: \_\_\_\_\_ MasterCard: \_\_\_\_\_ VISA \_\_\_\_\_

Amount Enclosed: \_\_\_\_\_

MasterCard / VISA # \_\_\_\_\_

Name on Card: \_\_\_\_\_

Exp. Date: \_\_\_\_\_ CV2 \_\_\_\_\_ (Back of card)

Card Holder Signature \_\_\_\_\_

**Credit Card Payments – By signing above, the card holder agrees to pay the total amount according to the card issuer agreement. A returned check or denied credit card payment forfeits your right to attend the seminars. No exceptions. Registrations paid with a credit card WILL NOT be processed without a signature.**

<u>Day</u>	<u>Course Numbers</u>	<u>All Licensees &amp; NICET</u>
Monday 11/16/20 .....	03-600-020, 03-601-020, 03-602-020 .....	FS, IA, IC & NICET
Tuesday 11/17/20 .....	03-700-020, 03-701-020, 03-702-020 .....	FS, IA, IC & NICET
Wednesday 11/18/20 .....	03-800-020, 03-801-020, 03-802-020 .....	FS, IA, IC & NICET
Thursday 11/19/20 .....	03-900-020, 03-901-020, 03-902-020 .....	FS, IA, IC & NICET
Friday 11/20/20 .....	03-950-020, 03-951-020, 03-952-020 .....	FS, IA, IC & NICET

**NICET Credit:** All courses listed will provide 1.0 Continuing Professional Development credit for each contact hour. A contact hour is defined as the 45 - 60 minute period devoted to the learning effort. All seminars at this venue will provide 6.0 CPD credits for NICET.

**Monday – NFPA 20 Fire Pumps \*\*\* NEW COURSE \*\*\***

This class will cover everything from an introduction to fire pumps to the final acceptance process. Types of pumps, piping arrangements, controllers, hydraulic formulas, sizing and water supplies will all be covered. Everyone who deals with fire pumps, regardless of your experience level, will get something of value from this class.

**Tuesday – NFPA 25 Inspection Testing and Maintenance \*\*\* NEW COURSE \*\*\***

This interactive full-day seminar covers the requirements for properly maintaining a water-based fire protection system in accordance with NFPA 25. The seminar clearly describes the responsibilities for compliance & record keeping. It describes the specific scope of the standard, and identifies the various ways in which information related to changes in the system are handled. We will cover and address the various Tables used in the standard, their specific purposes, and when to use which Tables. The attendees will be involved in a significant number of exercises addressing various problems encountered, identify the proper section(s) of the standard that deals with it, and discuss how to deal with issues not covered by the standard.

**Wednesday – NFPA 13/13R/13D Updates (4 hours), Attic Installations (2 Hours) \*\*\* NEW COURSE \*\*\***

AM Session - Every three years the NFPA sprinkler standards are reviewed and updated to ensure that the best fire standard of protection is provided. This presentation will address these updates to the 2016 Edition of the NFPA 13, 13R, and 13D Standards as compared to the 2013 Editions. This presentation will cover some of the highlights of this update such as the changes to the commodity classification annex, new and alternative storage protection methods, new residential system criteria, and new cloud ceiling allowances. This presentation will also talk about the process by which the standards are updated.

PM Session - This class will discuss some of the major difficulties with designing attic protection systems. It will identify how typical construction affects heat movement in attic and how this creates issues using traditional NFPA 13 prescriptive standard requirements. It will then walk through the installation requirements of the Globe Back to Back and Low Flow Specific Application Attic Sprinkler Protection Schemes clarifying their differences as well similarities. Finally, the class will illustrate how these specially listed systems more effectively address the construction issues presented in attics compared to NFPA 13 as well as how they stack up against each other across attic applications.

**Thursday 11/19/20 – NFPA 13, Chapter 8 & 11: Design Approaches \*\*\* (UPDATED MATERIAL) \*\*\***

This seminar will cover the design approaches described in NFPA 13, Chapters 8 & 11 and will highlight the advantages of each method. Classroom examples and exercises will be utilized to enhance the learning process and demonstrate proficiency.

**Friday – NFPA 13R Updates (2 hours) & 2016 Seismic Updates (4 hours) \*\*\* (UPDATED MATERIAL) \*\*\***

AM Session - The discussion of NFPA 13R will contrast NFPA 13 and NFPA 13R and highlight critical differences and applications.

PM Session - Seismic design is required in many locations across the Carolinas and most Federal projects to meet anti-terrorism requirements. This segment is intended to familiarize the participant with the design and installation requirements in NFPA 13 for protection against damage from earthquakes.

**Ray Vance (MONDAY AND TUESDAY)**

Ray Vance holds a NICET-IV certification in Fire Protection Engineering Technology-Automatic Sprinkler System Layout and is a licensed fire sprinkler contractor in several states, including NC. He has almost 35 years of experience in the fire protection industry including design, layout, inspections, sales, operations management, training and education. Ray is the owner of Fire Design Concepts, LLC, a fire protection systems design, consulting, training & education company (focusing on in-class training & free-lance design) with clients throughout the United States and is a certified NFPA and AFSA instructor.

**Karl Wiegand, P.E. – (WEDNESDAY)** Karl works in the fire protection department at Victaulic where his primary duties consist of providing training, providing technical support, researching and development, and representing Victaulic's interests within the fire protection industry. Karl holds a Professional Engineering license in the field of Fire Protection Engineering and is a graduate of Worcester Polytechnic Institute with a Bachelor of Science degree in Mechanical Engineering and a Master of Science degree in Fire Protection Engineering. Over the last eleven years Karl has held positions on NFPA 15, NFPA 16 NFPA 24, and NFPA 750 as well as AWWA's Backflow and Water Metering committees. Karl continues to represent the sprinkler industry on NFPA 101, 820, and 5000, AWWA's Fire Protection Committee, Underwriters Laboratory's UL199 STP & UL262 STP, and NFSA's Engineering and Standards Committee.

**Ralph Foster, III, P.E. (THURSDAY AND FRIDAY)**

Ralph is a licensed Fire Protection Engineer in multiple states. He earned his degree in Mechanical Engineering from the University of South Carolina and is an NFPA Certified Fire Inspector I and Certified Fire Plans Examiner. He worked for 21 years in the public sector conducting inspections and life safety code analysis of buildings; analyzing active and passive fire suppression and detection systems; and has extensive experience with Performance Based Design. He worked for the SC State Fire Marshal's Office for 19 years where he served as a Staff Engineer, Chief Deputy State Fire Marshal, Manager of Engineering Services, and taught both state and national certification courses. He is a member of SFPE, NFPA, ICC, and AFSA. He is active in the CSRA Chapter of the SFPE, SC Fire Sprinkler Contractors Association, and the SC Fire Marshals Association. He retired from the SC Army National Guard after 28 years of service, is an Assistant Scoutmaster with Troop 10, and resides in Columbia, SC.

**Richard Carr (THURSDAY AND FRIDAY)**

Richard Carr started in the fire sprinkler industry in 1972 designing fire sprinkler systems. He has worked in various capacities from Operations to Sales, but has always enjoyed Design the best. Richard has been involved in apprenticeship training for 32 years and has instructed various licensing classes. He is a NICET Level IV in Automatic Sprinkler System Layout and a North Carolina licensed fire sprinkler contractor.