



NATIONAL  
FIRE  
SPRINKLER  
ASSOCIATION, INC.

# ***Training and Education Programs***

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***The Source for CEU's in Water-Based  
Fire Protection Systems***

**National Fire Sprinkler Association**

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## HOSTING NFSA SEMINARS

There are several ways that you can host an on-site NFSA seminar. If you are an Authority Having Jurisdiction (AHJ), contractor, professional association such as building or fire official group, or any business that needs water-based fire protection system training, the National Fire Sprinkler Association can meet your needs.

The first way is to be a host sponsor. The sponsor needs to provide a training location that will hold a minimum of 30 students in a table and chair arrangement. The site needs an adequately sized screen for the room, power supply, comfortable heating or cooling system, adequate lighting controls, adequate blinds or curtains that allow control of outside lighting, and restroom facilities.

If you can provide a facility site that can meet the above conditions, NFSA will allow up to 3 free attendees from your organization or agency to attend or provide your organization with a contribution fee equivalent to 3 attendees. The sponsor can pick any of the On-Site seminars described in this catalog.

The sponsor is also asked to provide the morning refreshments. NFSA will provide the instructor, LCD projector, high quality workbooks, and professional certificates, and will provide regional and nationwide advertising. The NFSA seminars are approved in many states for building and fire official training credits, ICC & NFPA continuing education credits, and NICET credits.

If you need other types of credit or certification, NFSA will work with you to secure the needed certifications. If you have any question, contact Bob Treiber, NFSA's Director of Training & Education at 937.433.0099 or any of NFSA's Regional Managers. At the NFSA website, [www.nfsa.org](http://www.nfsa.org), you will find a tab on the left side that will get you to the NFSA Regional Managers or to the NFSA training site by clicking on the "Departments" bullet.

Another way to sponsor a NFSA seminar is to select a contracted seminar that is based on per-day fees and includes the cost of an instructor, instructor travel expenses, and projector. There is also a workbook fee per student.

The contract seminar sponsor is responsible for collecting any fees that they decide to charge for the seminar. Many sprinkler contractors conduct these seminars for the AHJs and clients in their region. It provides an opportunity to get to know each other and ensures that the AHJs have up-to-date knowledge of the installation standards. If you are interested in a contract seminar please contact Bob Treiber.

This catalog provides brief descriptions of the NFSA On-Site seminars available. •

## WATER-BASED FIRE PROTECTION SYSTEMS COURSE OFFERINGS

NFSA seminars are approved in several states for (ICC) building and fire official continuing education units (CEU's) and also for those contractors and personnel needing NICET training credits. The NFSA training seminars and programs are also good for the NFPA recertification credits for fire inspectors, and certified fire protection specialists. If you have any questions concerning seminars, contact the NFSA Seminar Coordinator at 845.878.4200, email at seminars@nfsa.org; or Bob Treiber, Director of Training & Education at 937.433.0099 or email at treiber@nfsa.org.

## ON-SITE SEMINAR OVERVIEWS

### **Prerequisites for all seminars – Attendees should:**

- Have familiarity with codes and standards through use or enforcement
- Possess a basic knowledge of construction
- Be able to read and understand basic construction drawings/technical documents

(Two-Day)

### **NFPA 13 AND INTRO TO PLAN REVIEW**

This two-day seminar provides attendees with vital information on determining compliance with fire sprinkler system design and installation rules in NFPA 13. The seminar uses a basic sprinkler plan as a visual aid to help illustrate many of the rules/regulations of NFPA 13 and introduce the student to sprinkler plan review.

*Experience Level – BASIC to INTERMEDIATE*

(One-Day)

### **NFPA 13, 13R, 13D UPDATE 2007**

This one-day seminar describes the major changes that have occurred in the 2007 editions of NFPA 13, 13R & 13D to enhance and further develop the rules/requirements for the proper installation of fire sprinkler systems.

*Experience Level – BASIC*

(One-Day)

### **(NEW) PLAN REVIEW PROCEDURES & POLICIES**

This one-day seminar is intended to educate the attendee on how to conduct a plan review of a sprinklers system. The seminar covers the methodology and systematic approach to plan review procedures. The attendee will learn how to evaluate and analyze a fire sprinkler plan for compliance with NFPA 13. Each attendee will receive copies of various sprinkler plan review check sheet that are used for compliance with NFPA 13 (1999 & 2002). This seminar is intended for those students who have attended the NFPA 13 overview seminar or those students having a good comprehension of NFPA 13.

*Experience Level – INTERMEDIATE*

(One-Day)

### **HYDRAULICS FOR FIRE PROTECTION**

This one-day program is designed to concentrate on one portion of the design phase of water-based fire protection systems, the hydraulics. This seminar discusses theory and application of hydraulic calculations, the various decisions that can affect them, and how to prove the design of the system will meet the water supply available as described in NFPA 13 by using actual problems. The program also offers various alternatives to solving a problem and shows the comparison among them and offers some basic methods to check the accuracy of hydraulic calculations.

*PARTICIPANTS WILL NEED A COPY OF NFPA-13 (1999 or later edition) & CALCULATOR WITH A (y<sup>x</sup>) FUNCTION KEY*  
*Experience Level – INTERMEDIATE*

(One-Day)

### **FIRE PUMPS FOR FIRE PROTECTION**

This one-day program provides attendees with vital information regarding the various requirements governing the proper design and installation of fire pumps. Each of the major components of a pump system is described & explained to provide the attendees with a clear understanding of their respective purposes and the part each plays in the overall function of the system. NFPA 20 and the NFPA Fire Pump Handbook are used as reference materials.

*Experience Level – INTERMEDIATE*

(One-Day)

### **SPRINKLER PROTECTION FOR GENERAL STORAGE**

This one-day program teaches attendees to use the standard to determine the basic requirements for sprinkler systems in protecting General Storage warehouse occupancies. The course is specifically designed to address the protection requirements for Class I-IV commodities and plastics that are Solid Piled, Palletized, in Bin Boxes

or on Shelves. The course emphasizes gaining familiarity with the standard by solving practical application problems. A guide is provided to the participants to assist them in improving their ability to find appropriate tables in the standard.

*PARTICIPANTS WILL NEED A COPY OF NFPA-13  
(1999 or later edition)*

*Experience Level – INTERMEDIATE to ADVANCED*

(One-Day)

### **SPRINKLER PROTECTION FOR RACK STORAGE**

This one-day program familiarizes attendees with using the standard to determine the basic requirements for sprinkler systems in protecting Rack Storage warehouse occupancies. The course is specifically designed to address the protection requirements for Class I-IV commodities and plastics that are in Single, Double & Multi-Row Racks. The course emphasizes gaining familiarity with the standard by solving practical application problems. A guide is provided to the participants to assist them in improving their ability to find appropriate tables in the standard.

*PARTICIPANTS WILL NEED A COPY OF NFPA-13  
(1999 or later edition)*

(One-Day)

### **SPRINKLER PROTECTION FOR SPECIAL STORAGE**

This one-day seminar provides the attendees with the requirements of NFPA 13 for the storage of flammable and combustible liquids (NFPA –30), storage of aerosols (NFPA - 30B), tire storage, rolled paper, & cotton storage. It is recommended that entry level students complete the General Storage seminar prior to enrolling in this seminar.

*Experience Level – INTERMEDIATE to ADVANCED*

(One-Day)

### **INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS**

This one-day seminar provides the attendees with vital information related to the procedures and responsibilities for properly inspecting, testing & maintaining a water-based fire protection system. The seminar also discusses the various responsibilities of the building owner, contractor and authority having jurisdiction (AHJ) as they relate to the requirements contained in NFPA 25.

*Experience Level – BASIC*

(One-Day)

### **RESIDENTIAL SPRINKLERS: HOMES TO HIGH-RISE**

This one-day seminar provides the participants with an overview of the residential fire problem in America. The seminar addresses the causes and effects of that problem in the past, the present & the future. The seminar explains the history of the residential sprinkler and how it was designed to specifically address the life safety considerations in residential fires. The attendee is given an overview of the basic differences among residential designs and installations applied in accordance with NFPA 13, 13R & 13D.

*Experience Level – BASIC*

(One-Day)

### **SPRINKLERS FOR DWELLINGS**

This one-day seminar analyzes the basic requirements used in designing, installing and accepting sprinkler systems in one- & two-family dwellings and manufactured housing. The program addresses the basic responsibilities of the designer, installer, authority having jurisdiction (AHJ) and owner for the proper installation of these systems. The program discusses the issues behind developing a life safety type sprinkler system to specifically address the problems associated with fire deaths in the U.S.

*Experience Level – BASIC*

(One-Day)

### **DESIGN ADVANTAGE**

This is a one-day (6 hours) program. Participants will increase their knowledge of the advantage of installing fire sprinkler systems in buildings under construction and their advantages of reducing the cost of the building. This seminar is approved for AIA – HEW continuing education credits.

*Experience Level – BASIC*

(1/2-Day)

### **STANDPIPE SYSTEMS FOR FIRE PROTECTION**

This half-day program provides the participant with basic knowledge governing the requirements for design, layout, installation and acceptance testing of standpipe systems using NFPA 14-Standard for the Installation of Standpipes and Hose Systems. The program also covers the basic requirements for when the International Building Code and NFPA 5000 require standpipe systems. The program describes the five types and three classes of standpipe systems.

*Experience Level – BASIC to INTERMEDIATE*

(1/2-Day)

### **UNDERGROUND PIPING FOR FIRE PROTECTION SYSTEMS**

This half day seminar provides the attendees with a methodical presentation of the rules/regulations/requirements for the installation of underground piping in accordance with NFPA 13 & 24. The seminar addresses the major issues affecting a proper installation by addressing not only the piping, but all of the appurtenances associated with it and the issues affecting it.

*Experience Level – BASIC*

(1/2-Day)

### **BASIC SEISMIC PROTECTION FOR SPRINKLER SYSTEMS**

This half-day seminar describes the responsibility of the contractor and authority having jurisdiction for the proper installation of earthquake protection of fire sprinkler systems.

*Experience Level – BASIC to INTERMEDIATE*

(1/2-Day)

### **ADVANCED SEISMIC PROTECTION FOR SPRINKLER SYSTEMS**

This half-day seminar provides the attendee with the skills to conduct layout procedures and plan review for the proper installation of earthquake protection for fire sprinkler systems.

*Experience Level – BASIC to INTERMEDIATE*

(1/2-Day)

### **INTRODUCTION TO SPRINKLER SYSTEMS**

This half-day program provides the participant with basic knowledge of sprinkler systems. The program covers the type of systems, types of sprinklers, components, terms and basic definitions used in NFPA 13. The course also provides the student with a brief overview of the historical development of sprinkler systems. This program will be very beneficial to the individual with limited knowledge of sprinkler systems.

*Experience Level – BASIC to INTERMEDIATE*

(1/2-Day)

### **(NEW) FIRE PUMP LAYOUT & SIZING**

This half-day seminar covers the criteria for proper layout and sizing of fire pumps in accordance with NFPA 20. The student will learn how to determine the pump

suction pressure based upon available water supplies and system demands. The student will complete multiple exercise problems covering tank and municipal water supplies.

*Experience Level – INTERMEDIATE to ADVANCED*

(1/2-Day)

### **(NEW) FOAM WATER SPRINKLER SYSTEM (NFPA 16)**

This half-day seminar covers the requirements for water-based fire protection utilizing low expansion foam. The seminar will provide an overview of the requirements of NFPA 16. The student will learn about the various types of foam concentrates, foam proportioning criteria, foam supply time requirements, and installation requirements of NFPA 16.

*Experience Level – INTERMEDIATE to ADVANCED*

(1/2-Day)

### **(NEW) LOW, MEDIUM, HIGH EXPANSION AND COMPRESSED AIR FOAM SYSTEMS NFPA 11**

This half day seminar provides a basic introduction into low expansion foam systems not covered by NFPA 16 and details the layout, installation and acceptance testing of low, medium and high expansion foam systems. The principal of extinguishing a fire using low, medium and high expansion will be covered. The types of foam concentrates, foam proportion systems, local and total flood foam protection will be covered. Student's will conduct exercises to determine water flows and concentrate time requirements as specified in NFPA 11. A brief overview of compressed foam systems will be covered.

*Experience Level – BASIC to ADVANCED*

(1/2-Day)

### **NFPA 13, 13R AND 13D (2002) UPDATE**

This half-day seminar details the latest and most significant changes to NFPA Standards 13, 13R, & 13D (2002 edition) as compared to the 1999 edition of NFPA 13, 13R, and 13D.

*Experience Level – BASIC to ADVANCED*

(1/2-Day)

### **(NEW 2008) CPVC PIPING INSTALLATION RE- QUIREMENTS AND PROCEDURES**

This half-day seminar will cover NFPA 13 requirements and Industry recommendations. The student will

learn about hanging requirements, expansion loops, gluing methods, fire stopping assembly requirements, anti-freeze systems and other installation requirements specified in NFPA 13 and by the manufactures of CPVC fire protection piping. This seminar is intended for entry level and intermediate level students and any person involved with the installation, approval or inspection of a CPVC fire piping system.

*Experience Level – BASIC to INTERMEDIATE*

(1/2-Day)

### **(NEW 2008) COMMISSIONING AND ACCEPTANCE TESTING OF SPRINKLER SYSTEMS**

This half-day seminar will cover acceptance testing requirements of NFPA 13, 13R, and 13D. The student will learn the requirements for completion of the A certificates and U certificates, flushing requirements and procedures, hydro-static pressure testing criteria, and the basic requirements for conducting an inspection of a new fire sprinkler to insure compliance with the NFPA Standards. The basic methodology for conducting and a system acceptance test and documentation will also be covered. Example acceptance testing forms will be provided. This seminar is intended for entry level and intermediate level students. The seminar is intended for any persons responsible for acceptance testing of a fire sprinkler system. One of the most important aspects of a new sprinkler system is to insure a correct and quality installation.

*Experience Level – BASIC to INTERMEDIATE*

#### **• What do I Need to Attend?**

Each student is asked to bring the applicable NFPA Standard as specified for each seminar. Students who participate in the NFPA 13 Overview, Intro to Plan Review, Plan Review Procedures and Policies, General Storage, Rack Storage, Special Storage, Basic Seismic Protection and Advanced Seismic Protection, Residential Sprinklers – Home to High-rise and NFPA 13, 13R and 13D Update seminars are asked to bring the applicable NFPA 13 Standard (1999 or 2002 edition). The NFPA 13, 13R and 13D 2007 edition Update seminar you are asked to bring a copy of NFPA 13 2007 edition.

For those attending the Fire Pump seminar you are asked to bring a copy of NFPA 20, those attending the Inspection Testing & Maintenance seminar you are asked to bring NFPA 25, those attending Standpipe System seminar you are asked to bring NFPA 14. For the

Sprinklers for Dwellings seminar the student is asked to bring a copy of NFPA 13D (2002 edition).

For those attending the Hydraulics for Fire Protection seminar, the attendee will need a calculator capable of doing multiplication, division, square root and scientific notation (exponential calculation  $y^x$ ). It is important that the student bring a calculator capable of doing the above mathematical functions and understand how to do all of the above functions on their calculator prior to attending the seminar.

#### **• On-Site Seminars Taught by the NFSA Engineering Department**

These seminars are designed for the fire protection designer, layout technician, service technician and installers. These seminars will also further educate code officials and design professional in the area of water-based fire protection.

(3-Day) – **ITM NICET Certification:** This three-day seminar has been developed for individuals that inspect, test, and maintain water-based fire protection systems.

(2-Week) – **Layout Technician:** This two-week seminar is for those individuals who have a good basic understanding of water-based fire protection systems; it can also be beneficial for those individuals seeking advanced knowledge of fire sprinkler systems. It prepares the individual for the NICET II and III level exams.

(3-Day) – **Advanced Layout Technician:** This three-day seminar is for those individuals who have completed the NFSA Layout Technician course or who have an equivalent level of expertise.

#### **• NFSA ACADEMY/Earn NICET Credits ([www.sprinkleracademy.org](http://www.sprinkleracademy.org))**

Don't let a busy schedule interfere with your educational needs. The NFSA Academy gives you the opportunity to participate in training while eliminating the cost of traveling and hotel accommodations. This initiative borrows from our experience as the leading source of both in-class and on-line fire sprinkler industry training. You get to select from over 100 modules. The student selects from one to five modules at a time, with each module lasting from 1 hour to 1½ hours. These modules range from basic to advanced levels and are available day or night 24/7 for 30 days. For further information call Dawn at 845.878.4200 ext. 133.

# Sponsored Seminar Information Form



Date: \_\_\_\_\_

Seminar Co-Sponsor: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Location/Building: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Email Address: \_\_\_\_\_ Mail Labels Provided: \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_

## Workbook Shipping *(Note: UPS will not ship to a P.O. Box address)*

Ship To: *(If Different From Contact Name Above)* \_\_\_\_\_

Shipping Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

State/Local Course Certification Number: \_\_\_\_\_ Hours: \_\_\_\_\_

Classroom Charge Per Day: \_\_\_\_\_

AV Equipment Charge Per Day: \_\_\_\_\_

Refreshment Charge Per Day: \_\_\_\_\_

1. Title of Seminar \_\_\_\_\_ Date: \_\_\_\_\_

Course # \_\_\_\_\_ Hours \_\_\_\_\_

2. Title of Seminar \_\_\_\_\_ Date: \_\_\_\_\_

Course # \_\_\_\_\_ Hours \_\_\_\_\_

3. Title of Seminar \_\_\_\_\_ Date: \_\_\_\_\_

Course # \_\_\_\_\_ Hours \_\_\_\_\_

4. Title of Seminar \_\_\_\_\_ Date: \_\_\_\_\_

Course # \_\_\_\_\_ Hours \_\_\_\_\_

5. Title of Seminar \_\_\_\_\_ Date: \_\_\_\_\_

Course # \_\_\_\_\_ Hours \_\_\_\_\_

6. Title of Seminar \_\_\_\_\_ Date: \_\_\_\_\_

Course # \_\_\_\_\_ Hours \_\_\_\_\_

## Comments:

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Complete this form and either fax or mail to:

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