

Updated July 2010

**training**

**NICET** correspondence courses  
**VIDEOS**

**hazard communication**

Design Courses

**seminars**

**AUDIO VISUAL**

**safety materials**

books & brochures

**FORMS**



**American Fire  
Sprinkler Association**

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# Correspondence Courses

## Make AFSA Training Work For You!

AFSA's Apprenticeship Training Course is approved by the U.S. Department of Labor Bureau of Apprenticeship and Training and by State Apprenticeship Committees in 75 percent of states. It fulfills the BAT requirement of 144 hours per year of technical and theoretical instruction, and it can easily be expanded to fulfill requirements for additional hours if necessary to obtain state approval.

## Corresponding Materials

Training Made Easy explains many aspects of training programs, including information on how-to register your apprenticeship training program with state and local agencies. Available online at [www.firesprinkler.org](http://www.firesprinkler.org)

## Identification Card

An identification card indicating the level of training achieved will be issued to each student as they complete each level in this series.

## Fitters

### Apprenticeship Training Series w/ Apprentice Training DVDs

To assist fire sprinkler contractors in strengthening their bottom line, the American Fire Sprinkler Association (AFSA) offers an Apprenticeship Training Series — Levels I, II, III & IV, an apprenticeship training course for sprinkler fitters.

The Apprenticeship Training Series is a correspondence course designed specifically for training apprentices in the fire sprinkler installation trade. This practical training program, published jointly with NCCER, is written from a contractor's point of view and has been developed through combined efforts of technical experts and AFSA contractor members.

Each level of the series includes photographs, drawings and tables to provide the latest graphic as well as written instruction on proper installation techniques and use of tools. Test materials are provided to allow student testing on a periodic basis. Tests will then be forwarded to AFSA headquarters for grading, and the company will be notified of each student's test score. This course is available in your choice of paper or online testing. With online testing, you save money on postage (no mailing tests for grading), there are no retake fees if the test is failed, and the process is faster with no bubble sheets to complete. For security purposes, a proctor password can be set up at your request to prevent the student from testing without proctor approval. The DVDs are designed to provide additional audiovisual instruction that reinforces skills learned in the Contren® Learning Series.

### Contren® Learning Series, Levels I - 4 (including Lvl I Spanish version)

**Online Testing:** Regular Price: \$500.00 Member: \$300

**Paper Testing:** Add \$50 to above price

### Item No.: AF001

#### Contren® Learning Series, Level I - 14 Modules

Newly updated to the 2007 Edition of NFPA 13. Pricing information above.

### Item No.: AF001-S

#### Contren® Learning Series, Level I (Spanish) - 14 Modules

Newly updated to the 2007 Edition of NFPA 13. Pricing information above.

### Item No.: AF002

#### Contren® Learning Series, Level II - 7 Modules

Newly updated to the 2007 Edition of NFPA 13. Pricing information above.

### Item No.: AF003

#### Contren® Learning Series, Level III - 5 Modules

Newly updated to the 2007 Edition of NFPA 13. Pricing information above.

### Item No.: AF004

#### Contren® Learning Series, Level IV - 5 Modules

Newly updated to the 2007 Edition of NFPA 13. Pricing information above.

## Placement Exams

### Item No.: AF005 Apprentice Training Course Level I - Exam\*

### Item No.: AF006 Apprentice Training Course Level II - Exam\*

**Regular Price: \$85.00 Member Price: \$50.00**

Placement exams for Level I or II of the Apprenticeship Training Course.

(\*Available online only)

## Item No.: ACM Applied Construction Math

**Regular Price: \$85 Member Price: \$50**

Just seeing the word "math" strikes fear and frustration into the hearts and minds of many students. This book, containing 14 chapters, teaches the fundamentals of math in way that is engaging, interesting, and relevant. It tells the story of a group of construction students tasked to build a house for their class project. This book is intended as a supplemental training tool for the math portions of AFSA's apprenticeship course. There is no testing involved with this book.

## Instructor's Guides

### Item No.: AF001G Guide for Contren® Learning Series Level I

### Item No.: AF002G Guide for Contren® Learning Series Level II

### Item No.: AF003G Guide for Contren® Learning Series Level III

### Item No.: AF004G Guide for Contren® Learning Series Level IV

**Regular Price: \$175 Member Price: \$125**

Developed for classroom training to correspond with individual Contren® Learning Series modules. Enables instructor to guide students through the course and recommends hands-on activities to enhance training.

## Item No.: ACMIG Instructor Guide for Applied Construction Math

**Regular Price: \$85 Member Price: \$50**

## Residential Installer Training

### Item No.: AF102

#### Residential Fire Sprinkler System Installation: A Guide to Installation Techniques for Residential Systems

**Online Testing: Regular Price: \$450.00 Member: \$250**

**Paper Testing: Add \$50 to above price**

This course teaches installers the techniques for residential fire sprinkler system installation according to the 2007 edition of NFPA 13D, Standard for the Installation of Sprinkler Systems in One-and Two-Family Dwellings and Manufactured Homes. Purchase of the book includes accompanying A/V instruction on DVD. (Also available in Spanish version, Item No. AF102-S).

## Audiovisual

### Apprentice Training DVDs

(produced by AFSA)

AFSA's popular apprentice training series has been expanded to include four DVD training supplements that provide audiovisual instruction on concepts and installation practices described in the text. Twenty-one programs include film and animated demonstration of the concepts being discussed. These guides take the apprentice through the installation process from the contractor's point of view. The following are included with purchase of the corresponding level of the Apprentice Training Series.

### Item No.: AF055 Complete Set - Apprentice Lvl's I-IV DVDs

**Regular Price: \$200.00 Member: \$135.00**

### Item No.: AF055-01 Apprentice Level I DVD

**Regular Price: \$75.00 Member: \$60.00**

### Item No.: AF055-02 Apprentice Level II DVD

### Item No.: AF055-03 Apprentice Level III DVD

### Item No.: AF055-04 Apprentice Level IV DVD

**Regular Price: \$50.00 Member: \$40.00**

## Residential Training DVDs

These programs are designed to provide additional audio/visual instruction that reinforces skills learned in the AFSA Residential Installer Training Correspondence Courses. The corresponding DVDs are included with your purchase of the Residential Fire Sprinkler Systems Installation guide.

### Item No.: AF102-D Residential DVD

**Regular Price: \$ 75.00 Member: \$ 60.00**

## Designers

### Applied Sprinkler Technology

In addition to the correspondence courses for sprinkler fitter training, AFSA introduces the Applied Sprinkler Technology Series. This three-level series is an update of AFSA's Designer Correspondence Course and will train designers on all aspects of the fire sprinkler technology and design.

#### Item No.: AF030

##### AFSA Applied Sprinkler Technology Level I

**Online Testing:** Regular Price: \$450.00 Member: \$250

**Paper Testing:** Add \$50 to above price

Some of the topics in Book I are applied sprinkler technology, piping materials, piping supports, basic building layout, sprinkler spacing rules and fundamentals of sprinkler system layout.

#### Item No.: AF031

##### AFSA Applied Sprinkler Technology Level II

**Online Testing:** Regular Price: \$450.00 Member: \$250

**Paper Testing:** Add \$50 to above price

This second of the three-book series. Some topics included: basic hydraulics, water supplies, water demand requirements, pipe schedule systems, hand calculations, computer calcs, plan submittal with calcs, wet systems, anti-freeze, dry systems, pre-action systems, deluge systems, material take off, sleeving, pipe offsets, drains, stand pipes and hose cabinets, FDCs & inspectors tests, and underground & backflow.

## Forms

### Report of Inspection Forms

**AVAILABLE FOR FREE DOWNLOAD at [www.firesprinkler.org](http://www.firesprinkler.org)**

AFSA makes two sets of inspection forms available to AFSA members: a set based on NFPA 25, 2002 Ed., and a separate set based on NFPA 25, 2008 Ed. Both sets are available for free download online at [www.firesprinkler.org](http://www.firesprinkler.org). The set based on NFPA 25, 2002 Ed., is also made available in printed pads of 25 three-part sets, printed on NCR paper to avoid messy carbons or the need for a copier onsite.

#### Item No.: 103A - 115A

**Regular Price: \$25.00/pad Member Price: \$10.00/pad**

##### Item No.: 103A Information Section

(Pad of 25) The information recorded on this form is obtained from the responsible representative of the property owner. The information requested will alert the "inspector" to potential conditions that may need to be addressed prior to conducting the "inspection" such as condition of the system, last inspection, unsafe conditions, etc.

##### Item No.: 104A Inspector's Section

(Pad of 25) This records the information about the "inspecting firm or party." It provides a "check-off list" of the forms that will be provided which outlines the services to be provided.

##### Item No.: 105A Weekly Report of Inspection (page 1 of 2)

(Pad of 25) Records the weekly inspection of Wet Sprinkler and Standpipe Systems in a combined format, dry pipe, preaction and deluge sprinkler systems & water storage tanks.

##### Item No.: 105A2 Weekly Report (page 2 of 2)

(Pad of 25) Records the weekly inspection of fire pumps, including items for the Weekly Churn Test. (Page 2 of 2 normally would not be required if the project being inspected does not have such installations.)

##### Item No.: 106A Wet Pipe Fire Sprinkler Systems (page 1 of 4)

(Pad of 25) Monthly Inspection tasks for wet pipe fire sprinkler systems. (NOTE: This Monthly Inspection for wet pipe sprinkler system does NOT include the "Weekly" inspection tasks that are covered on forms 105A-page 1 and 2. Therefore, the applicable weekly inspections covered on form 105A must be conducted as well.)

#### Item No.: AF032

##### AFSA Applied Sprinkler Technology Level III

**Online Testing:** Regular Price: \$450.00 Member: \$250

**Paper Testing:** Add \$50 to above price

Third of the three-book series, some topics covered are: general information on NFPA Standards; basic metric units & conversions; fire pump design; tanks; storage design & rack systems; specialty systems; inspection & maintenance; project management; estimating; and contracts, letters of proposal, & change orders.

## Foremanship Training

#### Item No.: AF225

##### The Leadership Ladder

**Online Testing:** Regular Price: \$500.00 Member: \$300

**Paper Testing:** Add \$50 to above price

AFSA's new correspondence course, The Leadership Ladder, teaches the newly promoted fire sprinkler foreman to manage projects from beginning to end. This 24-lesson course, written by industry veteran Michael L. Brown and reviewed by contractor members of AFSA, guides the new foreman through supervision of a fire sprinkler installation project and the other employees working that job. It also includes more than 40 pages of sample forms necessary to help manage a project, such as Change Order, Request For Information, and Employee Injury Report.

This course is available with your choice of paper or online testing. The tests are identical no matter the method you choose. With online testing, you save money on postage (no mailing tests to AFSA for grading), there are no retake fees if the test is failed, and the testing process is faster with no bubble sheets to complete. For security purposes, a proctor password can be set up at your request to prevent the student from testing with proctor approval.

#### Item No.: 106A2 Wet Pipe Fire Sprinkler Systems (page 2 of 4)

(Pad of 25) The quarterly inspection tasks & quarterly testing requirements for a wet pipe fire sprinkler system, and semi-annual testing requirements for wet pipe sprinkler systems.

#### Item No.: 106A3 Wet Pipe Fire Sprinkler Systems (page 3 of 4)

(Pad of 25) Annual Inspection tasks and the Annual Testing and Maintenance requirements for Wet Pipe Sprinkler Systems.

#### Item No.: 106A4 Wet Pipe Fire Sprinkler Systems (page 4 of 4)

(Pad of 25) Inspection tasks for Wet Pipe Sprinkler Systems that must be conducted at frequencies of 5 years, 10 years, 15 years and greater.

#### Item No.: 107A Dry Pipe Fire Sprinkler Systems (page 1 of 3)

(Pad of 25) Monthly Inspection tasks, as well as Quarterly Inspection tasks and Quarterly Testing requirements for Dry Pipe Fire Sprinkler Systems.

#### Item No.: 107A2 Dry Pipe Fire Sprinkler Systems (page 2 of 3)

(Pad of 25) Annual Inspection tasks and Annual Maintenance requirements for Dry Pipe Sprinkler Systems, as well as a Dry Pipe Valve Trip Test Table are included on this form.

#### Item No.: 107A3 Dry Pipe Fire Sprinkler Systems (page 3 of 3)

(Pad of 25) Annual Testing requirements for Dry Pipe Sprinkler Systems, and Inspection, Testing & Maintenance tasks for Dry Pipe Sprinkler Systems that must be conducted at frequencies of 5 years, 10 years or greater.

#### Item No.: 108A Standpipe Systems (page 1 of 4)

(Pad of 25) Monthly Inspection tasks and Quarterly Testing requirements for Wet & Dry Standpipe Systems. NFPA 14 does not set inspection, testing & maintenance requirements except for initial acceptance testing immediately after installation.

#### Item No.: 108A2 Standpipe Systems (page 2 of 4)

(Pad of 25) Quarterly Inspection tasks for Wet and Dry Standpipe Systems

#### Item No.: 108A3 Standpipe Systems (page 3 of 4)

(Pad of 25) Annual Inspection and Testing requirements, as well as annual maintenance requirements for wet and dry standpipe systems.

## Report of Inspection Forms continued

AVAILABLE FOR FREE DOWNLOAD at [www.firesprinkler.org](http://www.firesprinkler.org)

### Item No.: 103A - 115A

Regular Price: \$25.00/pad

Member Price: \$10.00/pad

### Item No.: 108A4 Standpipe Systems (page 4 of 4)

(Pad of 25) Five-year inspection & maintenance tasks for Standpipe Systems

### Item No.: 109A Foam Water Systems (page 1 of 3)

(Pad of 25) Monthly & quarterly inspection, and maintenance requirements for foam water systems

### Item No.: 109A2 Foam Water Systems (page 2 of 3)

(Pad of 25) Annual inspection & maintenance tasks, and annual testing requirements for foam water systems

### Item No.: 109A3 Foam Water Systems (page 3 of 3)

(Pad of 25) Five and ten-year maintenance tasks for foam water systems

### Item No.: 110A Fire Pump Assemblies (page 1 of 6)

(Pad of 25) Monthly Inspection, Testing & Maintenance requirements for Fire Pump Assemblies

### Item No.: 110A2 Fire Pump Assemblies (page 2 of 6)

(Pad of 25) Semi-annual Inspection, Testing & Maintenance for Fire Pump Assemblies. Annual Inspection & Maintenance requirements for Fire Pump Assemblies

### Item No.: 110A3 Fire Pump Assemblies (page 3 of 6)

(Pad of 25) Annual Testing requirements for Fire Pump Assemblies

### Item No.: 110A4 Fire Pump Assemblies (page 4 of 6)

(Pad of 25) Annual Testing requirements for Fire Pump Assemblies, cont. Five-Year Inspection, Testing & Maintenance requirements for Fire Pump Assemblies

### Item No.: 110A5 Fire Pump Assemblies (page 5 of 6)

(Pad of 25) Record of annual test data & pump performance curve for fire pump assemblies

### Item No.: 110A6 Fire Pump Assemblies (page 6 of 6)

(Pad of 25) Form to Plot and Record Fire Pump Performance Test Curves

### Item No. 111A1 Private Fire Service Mains (page 1 of 3)

(Pad of 25) Monthly and Quarterly Inspection tasks, as well as Semi-Annual Inspection and Testing requirements for Private Fire Service Mains

### Item No. 111A2 Private Fire Service Mains (page 2 of 3)

(Pad of 25) Annual Inspection, Testing & Maintenance requirements for Private Fire Service Mains

### Item No. 111A3 Private Fire Service Mains (page 3 of 3)

(Pad of 25) Five-year inspection & testing requirements for private fire service mains

### Item No. 112A1 Water Storage Tanks (page 1 of 3)

(Pad of 25) Monthly Inspection and Testing tasks, as well as Quarterly Inspection Tasks for Water Storage Tanks

### Item No. 112A2 Water Storage Tanks (page 2 of 3)

(Pad of 25) Semi-Annual Testing tasks for Water Storage Tanks, as well as Annual Inspection, Testing and Maintenance tasks for Water Storage Tanks

### Item No. 112A3 Water Storage Tanks (page 3 of 3)

(Pad of 25) Two-year Maintenance requirements for Water Storage Tanks, as well as Three-Year or Five Year Inspection and Testing tasks for Water Storage Tanks and Five-Year Testing requirements for Water Storage Tanks

### Item No.: 113A1 Preaction & Deluge Fire Sprinkler Systems (page 1 of 4)

(Pad of 25) Monthly Inspection tasks for Preaction & Deluge Systems, and Quarterly Inspection and Testing tasks for Preaction & Deluge Systems

### Item No. 113A2 Preaction & Deluge Fire Sprinkler Systems (page 2 of 4)

(Pad of 25) Annual Inspection and Annual Maintenance tasks for Preaction & Deluge Systems

### Item No. 113A3 Preaction & Deluge Fire Sprinkler Systems (page 3 of 4)

(Pad of 25) Annual Testing requirements for Preaction & Deluge Systems

### Item No. 113A4 Preaction & Deluge Fire Sprinkler Systems (page 4 of 4)

(Pad of 25) Three-Year Testing requirements for Preaction & Deluge Systems that are NOT full flow trip tested annually due to the necessity of shutting down protected equipment. Also Inspection, Testing and Maintenance items to be conducted at Five-Year, Ten-Year or greater frequency.

### Item No.: 114A1 Report of Obstruction Investigation and Internal Condition of Fire Protection Piping (page 1 of 2)

(Pad of 25) Annual ice obstruction inspection tasks (applicable only to dry pipe or preaction system piping protecting or passing through freezers or cold storage rooms), and five-year investigation & prevention tasks. (Note: This is a form that should be completed for obstruction investigation in any system where evidence of obstructive or foreign material has been identified, in accordance with Chap. 13 of NFPA 25, 2002 Ed.)

### Item No.: 114A2 Report of Obstruction Investigation and Internal Condition of Fire Protection Piping (page 2 of 2)

(Pad of 25) Other conditions providing cause for investigation and internal obstruction investigation. (Note: This is a new form that should be completed for obstruction investigation in any system where evidence of obstructive or foreign material has been identified, per Chapter 13 of NFPA 25, 2002 Edition.)

### Item No.: 115A Report of Testing of Pressure Regulating Valves

(Pad of 25) Performance & recording of test results for various pressure regulating valves

## Other AFSA Forms

AFSA has published a series of forms for the fire sprinkler industry. These forms provide standardized documentation procedures for fire sprinkler systems design, installation and maintenance. These forms are used by inspectors, building maintenance personnel, designers, layout technicians, plan checkers, AHJs, safety engineers and insurance personnel. Free download on the AFSA Web site at [www.firesprinkler.org](http://www.firesprinkler.org) under the downloads tab.

### Item No.: AF060 Hydraulic Calculations\*

This form provides contractors, engineers, technicians, estimators and others with a standardized form to make project calculations. (\*Online only)

### Item No.: AF063 Contractor Material and Test Certificate—Above Ground Regular Price: \$7.50/ pad

Member Price: \$6.00/ pad

(Pad of 100) This form is used to record inspection and tests for authorities, owners and contractors. Above Ground Piping—NFPA-13 certified and approved.

### Item No.: AF064 Contractor Material and Test Certificate—Below Ground Regular Price: \$7.50/pad

Member Price: \$6.00/pad

(Pad of 100) Use this form to record inspection and tests for authorities, owners and contractors. Below Ground Piping—NFPA-13 certified and approved.

## Fitter Resources

### Audio Visual Training

**Item No.: AF0511**

**How To Successfully Install Copper Fire Sprinkler Systems**

**Regular Price: \$110.00**

**Member Price: \$50.00**

This 32-minute videocassette, offered in 1/2-inch VHS, serves as an excellent educational tool for fitters learning to install copper fire sprinkler systems. The video covers: The right way to install copper systems, industry recommendations for properly soldering and brazing tubes and fitting joints, "the right" (and "the wrong") way of handling materials, tools for installing copper systems, different techniques, materials & tools involved, as well as spacing for hangers, bending processes, etc. A workbook will accompany the video and will serve as a reinforcement in the learning process.

**Item No.:AF057**

**How To Successfully Install & Troubleshoot a Central Dry Pipe Valve**

**Regular Price: \$60.00**

**Member Price: \$30.00 / 2 or more - \$25.00 ea.**

This 23-minute training video (1/2 -inch VHS) provides step-by-step "how to" information about 4-inch, dry pipe valves and trims manufactured by Central Sprinkler Corp.

How to... Dry Pipe Valve describes the "ins" and "outs" of how air pressure in the dry piping system holds back water from entering the piping until the dry pipe valve is automatically activated. In addition to the dry pipe valve, the video includes detailed information about: priming water line trim, air line trim, main drain line trim, accelerator line trim. The video's troubleshooting info answers the important question "What do I do if I find moisture in the accelerator air line?"

## Designer Resources

**AVAILABLE FOR FREE DOWNLOAD at [www.firesprinkler.org](http://www.firesprinkler.org)**

**Item No.: AF100**

**A Reference Guide to Automatic Sprinklers**

*(produced by AFSA)*

**Regular Price: \$45.00**

**Member Price: \$25.00**

Designed for contractors, Authorities Having Jurisdiction and plan reviewers, AFSA's A Reference Guide to Automatic Sprinklers includes more than 80 pages of descriptions categorizing the most commonly used sprinklers on the market today. Contractors can use it to help estimate and design a project. Plan Reviewers can use it when checking drawings and AHJs can use it during inspections. This information was obtained with the cooperation of major manufacturers to produce the only book of its kind in the fire sprinkler industry!

## Management Resources

**Item No.: AF040**

**Estimating, Bidding, Selling & Contracting for Fire Sprinkler Systems**

**Regular Price: \$250.00**

**Member Price: \$150.00**

Based on proven techniques and best practices of successful fire sprinkler contractors across the country, Estimating, Bidding, Selling, and Contracting for Fire Sprinkler Systems is a detailed guide to selling fire sprinkler systems - from receiving the bid request to the post-bid review. This sales training guide walks through every step of the process carefully explaining how-to define the scope of work, how-to estimate all of your actual costs, the elements needed to properly prepare a bid, how-to pull all the elements together into a professional proposal, and what to look for in the final contract. Written by industry veteran Michael L. Brown and including input from successful contractor's from across the country, this guide has over 300 pages of practical advice and sample forms for estimating, checklists and other materials that any fire protection company, large or small, can use to produce competitive bids.

**Item No.: AF042**

**Project Management Tools**

*(produced by AFSA)*

**Regular Price: \$150.00**

**Member Price: \$75.00**

Project Management Tools program offers a complete package for experienced and new managers alike. The program has been written and reviewed by fire sprinkler contractors for fire sprinkler contractors and is written in a "plain-talk" manner to provide maximum benefit by those who want to take the next step in maximizing profits and business development.

Topics covered in AFSA's Project Management Tools include:

- Documentation Requirements
- Management Team Meetings
- Work in Progress Scheduling
- Estimating Philosophies
- Job Cost Reports
- Managing to Estimates
- Change Orders
- Sample Forms
- Sample Correspondence Project File Formatting
- Project Documentation
- Job Cost & General Accounting

In addition, this program includes a CD with files of the sample forms illustrated in the book so that contractors can print these forms for their company's use. AFSA's program is cost-effective and easy to implement for immediate positive results and will benefit small and large companies alike.

**Item No.: AF115**

**Spanish on the Job**

**Regular Price: \$16.00**

**Member Price: \$12.00**

Spanish on the job details 1001 common terms used on the job. No previous knowledge of Spanish is necessary. All words are phonetically spelled out to assure correct pronunciation. 107 pages.

# Safety Training

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**Item No: AF210**  
**Jobsite Safety Program**  
*(produced by AFSA)*

**Regular Price: \$6.00**

**Member Price: \$4.00**

This is the latest in a series of publications developed by AFSA's Safety Committee to help contractors develop a well-rounded Safety Program to fulfill OSHA requirements. The Jobsite Safety Program was developed so that you can tailor your safety needs and information for each jobsite. As a special introductory offer, AFSA is offering one complimentary book to each contractor member.

**Item No.: AF200**  
**Fall Protection Program for Fire Sprinkler Contractors**  
*(produced by AFSA & CNA Insurance)*

**Free Download at [www.firesprinkler.org](http://www.firesprinkler.org) -or-**

**Regular Price: \$8.00**

**Member Price: \$5.00**

AFSA and CNA Insurance have developed a new program to assist contractors in educating their employees on fall protection. This 34-page booklet covers fall prevention and protection, stair and ladder safety, and supported scaffold safety. The purpose of the program is to provide all employees with the proper understanding, training and equipment necessary to prevent injuries and falls off of, onto, or through working levels. Included are jobsite checklists, system inspection reports, fall hazard survey forms, and employee training records. Also included are diagrams labeled with OSHA's requirements.

**Item No.: AF220**  
**Fleet Safety Manual**  
*(produced by AFSA & CNA Insurance)*

**Free Download at [www.firesprinkler.org](http://www.firesprinkler.org) -or-**

**Regular Price: \$10.00**

**Member Price: \$7.00**

Did you know that 30 percent of business dollar losses for the fire sprinkler industry come from accidents involving your company vehicles? The AFSA Safety Committee and CNA have developed the Fleet Safety Manual to help you curb these expenses. Several AFSA contractors, with excellent fleet safety records, contributed to this manual. AFSA's Safety Committee encourages AFSA contractor members to give fleet safety a priority consideration to cut losses. If you will institute the program outlined in this manual and make it a part of each driver's routine, you will be rewarded with fewer losses!

**Item No.: AF044**  
**Personnel Safety Handbook**  
*(produced by AFSA)*

**Free Download at [www.firesprinkler.org](http://www.firesprinkler.org) -or-**

**Regular Price: Up to 10-\$4.00 ea. / 11 or more-\$3.00 ea.**

**Member Price: Up to 10-\$3.50 ea. / 11+ -\$2.50 ea.**

Contractors today must comply with many of the Occupational Safety and Health Administration's (OSHA) safety standards. OSHA has the authority to carry out regular inspections of all construction companies and jobsites and can issue citations and fines for non-compliance which can run as high as \$10,000 per day.

The Personnel Safety Handbook was designed by the AFSA Safety Committee in cooperation with CNA Insurance to help contractors avoid such high penalties. This booklet can help remind your employees about basic safety procedures. But, each company should also have a safety program established.

**Item No.: AF7039**  
**Preventing and Controlling Water Damage**  
*(produced by AFSA & CNA Insurance)*

**Free Download at [www.firesprinkler.org](http://www.firesprinkler.org) -or-**

**Regular Price: \$20.00**

**Member Price: \$10.00**

Preventing and Controlling Water Damage is a handy checklist of procedures to follow when you have a job site water leak. Use this guide to be sure you get the needed information for insurance purposes.

**Item No.: AF045**  
**A Manual of Recommended Procedures to Implement a Safety & Hazard Communication Program**  
*(produced by AFSA)*

**Free Download at [www.firesprinkler.org](http://www.firesprinkler.org) -or-**

**Regular Price: \$15.00**

**Member Price: \$10.00**

If you need assistance in establishing a safety program, AFSA's guide, A Manual of Recommended Procedures to Implement a Safety & Hazard Communication Program is a step-by-step guide on implementing such a program. It was written specifically for fire sprinkler contractors and should get you well on your way to establishing an effective safety program.

## Complete Programs

**Item No.: AF125**  
**AFSA / OSHA Alliance: Contractor's Tool Box Talks**  
*(produced by AFSA & OSHA)*

**Free Download at [www.firesprinkler.org](http://www.firesprinkler.org)**

These toolbox talks were put together especially for the fire sprinkler contractor. Their purpose is to assist sprinkler contractors in their efforts in preventing and controlling losses through continuous safety training. The topics address the exposures sprinkler contractors face on a daily basis and proportionately reflect the loss trends of sprinkler contractors for the period 1/97 – 12/07. Included with the program are forms to record the time, place, jobsite, and who attended to help you meet OSHA Safety Program requirements.

# NFPA Publications

## NFPA Codes & Standards (FOR AFSA MEMBERS ONLY)

### Item No.: 13DRHB10

#### Automatic Sprinkler Systems for Residential Occupancies Handbook, 2010 Ed.

**AFSA Member Price: \$102.60**

NFPA's all-new 2010 *Automatic Sprinkler Systems for Residential Occupancies Handbook* brings you fully up-to-date on sprinkler data, equipment cost-effectiveness, and the "how's and whys" behind system compliance. It includes: the complete 2010 texts of NFPA 13D: *Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes* and NFPA 13R: *Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height*; first-time commentary on NFPA 13R's new chapters; detailed visuals that clarify requirements; and new annexes, including an update on the latest information about residential fire experience and sprinkler use in the United States. (Hardbound, 352 pp., 2010)

### Item No.: 13DRHB07

#### Automatic Sprinkler Systems for Residential Occupancies Handbook, 2007 Ed.

**AFSA Member Price: \$102.60**

### Item No.: 13HB10

#### Automatic Sprinkler Systems Handbook, 2010 Ed.

**Member Price: \$114.57**

The 2010 edition of NFPA 13 is current with the latest sprinkler technology, delivering scientifically-based solutions that reduce risks and fire loss—and only the *Automatic Sprinkler Systems Handbook* contains detailed explanations of NFPA 13 rules, real-world visuals, and a wealth of extra material not in the Standard. Avoid errors and steer clear of issues that could compromise sprinkler operation. Designers, installers, and AHJs all need the 2010 *Automatic Sprinkler Systems Handbook*. (Hardbound, 1,088 pp., 2010)

### Item No.: 13HB07

#### Automatic Sprinkler Systems Handbook, 2007 Ed.

**Member Price: \$114.57**

### Item No.: 20HB10

#### Handbook for Stationary Fire Pumps, 2010 Ed.

**AFSA Member Price: \$102.60**

The 2010 Stationary Fire Pumps Handbook delivers the full story on fire pumps, tanks, hydrants flow testing, and fire service mains. Bring your knowledge up-to-date with NFPA 20: *Standard for the Installation of Stationary Pumps for Fire Protection* and get advanced guidance relating to all types of water supply availability and reliability. The 2010 *Stationary Fire Pumps Handbook* provides solid answers and information in four easy-to-access parts. Update your knowledge fast with this one-stop source for water-based system. (Hardbound, 576 pp., 2010)

### Item No.: 20HB07

#### Handbook for Stationary Fire Pumps, 2007 Ed.

**AFSA Member Price: \$102.60**

### Item No.: 25HB08

#### NFPA 25: Water-Based Fire Protection Systems Handbook, 2008 Ed.

**Member Price: \$102.60**

The NFPA 25 Handbook's unique mix of requirements plus advice fully prepare you to work confidently with updated criteria for performance-based testing, impairment procedures, main drain tests, dry-pipe system testing, and more. No other source offers more authoritative guidance to help you pass inspections and make sure facilities are protected. The complete 2008 NFPA 25 text is supplemented by expert explanations and examples of how to apply rules in specific situations. Numerous inspection and testing forms save you time and ensure nothing is overlooked. A handy summary of major code changes makes it easy to compare requirements. (Hardbound, P448, 2008)

### Item No.: 25HB02

#### NFPA 25: Water-Based Fire Protection Systems Handbook, 2002 Ed.

**Member Price: \$102.60**

### Item No.: PGSS10

#### NFPA Pocket Guide to Sprinkler System Installation, 2010 Ed.

**Member Price: \$27.36**

Completely up-to-date with the 2010 edition of NFPA 13, the third edition NFPA *Pocket Guide to Sprinkler System Installation* is your single source for all the essential data contractors, designers, plan reviewers, and inspectors need to ensure that automatic sprinkler systems are installed right for maximum fire protection. This guide contains: the most frequently accessed requirements from the 2010 NFPA 13, including spacing, location, and obstruction rules; a wealth of charts and tables; symbols for water supply and distribution, indicating appliances, control panels, signal initiating devices and switches, plus piping, valves, control devices, and hangars; useful calculations and formulas; and proven system design approaches, selected tables, and more from NFPA 170 and the *Fire Protection Handbook*®. (Softbound, Approx. 490 pp., 2010)

### Item No.: PGSS04

#### NFPA Pocket Guide to Sprinkler System Installation, 2004 Ed.

**Member Price: \$27.36**

### Item No.: 500009

#### NFPA 5000 Building Construction & Safety Code, 2009 Ed.

**Member Price: \$66.26**

The 2009 NFPA 5000: Building Construction and Safety Code® provides complete rules for new construction, building rehab, and quality assurance. Major changes to the 2009 Code affect elevator use for occupant-controlled evacuation; dedicated elevators for first responders; supplemental evacuation equipment; collapse prevention scenario design in the section on performance-based design; area of refuge communication systems; remoteness of exit access and exit discharge; exit stair path markings; health care occupancy door locking for patient protective/security needs; health care occupancy alcohol-based hand-rub dispenser provisions; occupant notification via public address system in assembly occupancies and mercantile malls. (Softbound, 603 pp., 2009)

### Item No.: 500006

#### NFPA 5000 Building Construction & Safety Code, 2006 Ed.

**Member Price: \$66.26**

### Item No.: 500003

#### NFPA 5000 Building Construction & Safety Code, 2003 Ed.

**Member Price: \$66.26**

### Item No.: 1310

#### NFPA 13: Installation of Sprinkler Systems, 2010 Ed.

**Member Price: \$66.26**

Put powerful sprinkler strategies into your toolkit with NFPA 13: *Standard for the Installation of Sprinkler Systems*—the new best practices for system design, installation, water supplies, and equipment. The 2010 edition of NFPA 13 is current with the latest sprinkler technology, delivering scientifically-based solutions that reduce risks and fire loss. Keep pace with dynamic advancements and ensure systems are designed and installed correctly with the 2010 edition of NFPA 13. (Softbound, 414 pp., 2010)

### Item No.: 1307

#### NFPA 13: Installation of Sprinkler Systems, 2007 Ed.

**Member Price: \$66.26**

### Item No.: 1302

#### NFPA 13: Installation of Sprinkler Systems, 2002 Ed.

**Member Price: \$66.26**

## **NFPA Codes & Standards Cont.** (FOR AFSA MEMBERS ONLY)

### **Item No.:13D10**

#### **NFPA 13D: Standard for the Installation of Sprinkler Systems in One-/ Two-Family Dwellings & Manufactured Homes, 2010 Ed.**

**Member Price: \$31.64**

The 2010 NFPA 13D: *Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes* presents updated rules for every aspect of sprinkler design, water supplies, equipment, and placement. Major changes in this edition include: new 8-step prescriptive pipe sizing method is presented as an alternative to the hydraulic calculation method; NFPA 13D's scope has been expanded to include inspection, testing, and maintenance; text clarifies that "townhouses" can be protected by an NFPA 13D system; a new annex provides maintenance and testing information needed by homeowners. (Softbound, 46 pp., 2010)

### **Item No.:13D07**

#### **NFPA 13D: Standard for the Installation of Sprinkler Systems in One-/ Two-Family Dwellings & Manufactured Homes, 2007 Ed.**

**Member Price: \$31.64**

### **Item No.:13D02**

#### **NFPA 13D: Standard for the Installation of Sprinkler Systems in One-/ Two-Family Dwellings & Manufactured Homes, 2002 Ed.**

**Member Price: \$31.64**

### **Item No.: 13R10**

#### **NFPA 13R: Standard for Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height, 2010 Edition**

**Member Price: \$31.64**

Provide residents of multi-family occupancies with the fire and life safety they deserve with the 2010 edition of NFPA 13R: *Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height*. Updated and reorganized for easier referencing, this edition features separate chapters on sprinkler system installation, discharge, plans and calculations, water supplies, acceptance testing, and care and maintenance. New annex material helps you determine when NFPA 13R is applicable. (Softbound, 36 pp., 2010)

### **Item No.: 13R07**

#### **NFPA 13R: Standard for Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height, 2007 Edition**

**Member Price: \$31.64**

### **Item No.: 13R02**

#### **NFPA 13R: Standard for Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height, 2002 Edition**

**Member Price: \$31.64**

### **Item No.: 1410**

#### **NFPA 14: Standard for Installation of Standpipe, Private Hydrants and Hose Systems, 2010 Edition**

**Member Price: \$31.64**

Follow the updated rules in the 2010 NFPA 14: *Standard for the Installation of Standpipe and Hose Systems* and improve fire protection and fire safety. The 2010 edition includes changes for system designers and installers, such as: new requirements permitting express mains supplying higher zone standpipes to be designed with pressures in excess of 350 psi (24 bar) in accordance with their materials listings or as approved by the AHJ; clarified requirements regarding standpipe system zones; new requirements concerning standpipe systems with risers that terminate at different floor levels; new and revised definitions for standpipe, horizontal standpipe, and express main. This widely used document is essential for system designers and installers and also important for insurance professionals, AHJs, and others. (Softbound, Approx. 42 pp., 2010)

### **Item No.: 1400**

#### **NFPA 14: Standard for Installation of Standpipe, Private Hydrants and Hose Systems, 2000 Edition**

**Member Price: \$31.64**

### **Item No.: 2010**

#### **NFPA 20: Standard for the Installation of Stationary Fire Pumps for Fire Protection, 2010 Edition**

**Member Price: \$40.61**

Head off system failure and malfunctions with the 2010 edition of NFPA 20: *Standard for the Installation of Stationary Pumps for Fire Protection*, featuring the latest requirements for installing all types of pumps including centrifugal, vertical shaft turbine-type, and positive displacement. This 2010 edition is your complete source for comprehensive guidance on stationary fire pumps including: fire pump design, electrical and mechanical construction, acceptance testing, and operation. Introducing new Chapter 5 on high-rise pump installations. (Softbound, 106 pp., 2010)

### **Item No.: 2007**

#### **NFPA 20: Standard for the Installation of Stationary Fire Pumps for Fire Protection, 2007 Edition**

**Member Price: \$40.61**

### **Item No.: 2003**

#### **NFPA 20: Standard for the Installation of Stationary Fire Pumps for Fire Protection, 2003 Edition**

**Member Price: \$40.61**

### **Item No.: 2407**

#### **NFPA 24: Installation of Private Fire Service Mains and Their Appurtenances, 2007 Edition**

**Member Price: \$31.64**

Consistent with the 2007 NFPA 13: *Installation of Sprinkler Systems*, the 2007 edition of NFPA 24 is your comprehensive source for requirements governing private fire service mains and private fire hydrants. This edition provides up-to-date provisions for underground fire service mains and their appurtenances, yard piping that feeds automatic sprinkler systems, yard hydrants, standpipes and other water-based fire protection systems. New in the 2007 NFPA 24 is an updated chapter on underground piping, new requirements for leakage testing, and two new annexes on fire flow testing and marking of hydrants. Be sure water supplies are adequate and ready with NFPA 24. (Softbound, Approx. 50 pp., 2007)

### **Item No.: 2402**

#### **NFPA 24: Installation of Private Fire Service Mains and Their Appurtenances, 2002 Edition**

**Member Price: \$31.64**

### **Item No.: 2508**

#### **NFPA 25, Standard for the Inspection, Testing, & Maintenance of Water-Based Fire Protection Systems, 2008 Ed.**

**Member Price: \$40.61**

The 2008 NFPA 25 offers the most advanced rules for the care of fire sprinkler systems, standpipe and hose systems, fire pumps, fire service piping and appurtenances, water storage tanks, fixed water spray, foam-water, and valves. Provisions also address impairment handling and reporting. Guidelines for a performance-based testing option offer an alternate, flexible means of compliance. (Softbound, 97 pp., 2008)

### **Item No.: 2502**

#### **NFPA 25, Standard for the Inspection, Testing, & Maintenance of Water-Based Fire Protection Systems, 2002 Ed.**

**Member Price: \$40.61**

### **Item No.: 2598**

#### **NFPA 25, Standard for the Inspection, Testing, & Maintenance of Water-Based Fire Protection Systems, 1998 Ed.**

**Member Price: \$40.61**

# NICET Certification Study Kits

## (FOR AFSA MEMBERS ONLY)

On a national basis, NICET certification is rapidly moving from being a luxury to a necessity in terms of remaining competitive within the fire protection industry. Fire Tech Productions has created several helpful study aids for NICET test preparation in Automatic Sprinklers, Special Hazards, and Fire Alarms. These products are developed by FireTech Productions and offered to AFSA members at a special discount. These products are not endorsed by AFSA.

### Item No.: FTP1t Engineering Basics Reference Text with NICET Addendum Member Price: \$93.00 (AFSA members only)

This book is a fundamental reference for anyone in the fire protection industry. From an introductory overview of NFPA standards to math, physics and communication skills, you will find that you reference Engineering Basics over and over again. A math review comprises 1/3 of the text. Many detailed problems and examples are given to help you sharpen your math skills and provide you with a solid math foundation. The text also covers: design layouts, basic physical science principles, advanced physical science, communication skills for the engineer, metric units & conversions, principles of combustion, construction plans, fire protection plans & symbols, specs & cost estimates, contracts, and building codes.

### Item No.: FTP2b NICET Automatic Sprinkler Basics Reference Text with Addendum Member Price: \$83.00 (AFSA members only)

This text is included in the Automatic Sprinklers Audio Package (Levels I & II and Complete packages), but is made available as a separate purchase, if desired, using Item No. FTP2b. This ten chapter text covers all NICET Level I elements, such as industry standards, basic metric units & conversions, plans, specs & contracts, basics of sprinkler systems, basic materials & components, intermediate math, basic communication skills, layout simple designs, physical science, and principles of combustion.

### Item No.: FTP2ti Intermediate Automatic Sprinkler Reference Text Member Price: \$130.00 (AFSA members only)

This text is included in the Automatic Sprinklers Audio Package (Levels III & IV and Complete packages), but is made available as a separate purchase, if desired, using Item No. FTP2ti. This thirty-four chapter text covers most Level II elements, such as water supply requirements, building codes, fundamentals of hydraulics, requirements of spacing, and more.

### Item No.: FTP2tb Basic & Intermediate Automatic Sprinkler Reference Texts Member Price: \$186.00 (AFSA members only)

This is a combination of Item Nos. FTP2tb and FTP2ti.

### Item No.: FTP2ns Automatic Sprinkler Study Notebook Set Member Price: \$70.00 (AFSA members only)

This notebook set is included in the 3 Automatic Sprinkler Audio Packages, but is made available as a separate purchase, if desired, using Item No. FTP2ns. The study notebooks allow you to follow along with the audio, take notes and work problems. The study notebooks are designed to encourage participation by the student. By following along with the audio, taking notes and entering key code references, key study areas are highlighted and made easier to remember.

### Item No.: FTP3ns Special Hazards Study Notebook Set Member Price: \$75.00 (AFSA members only)

This notebook set is included in the 3 Special Hazards Audio Packages, but is made available as a separate purchase, if desired, using Item No. FTP3ns. The study notebooks allow you to follow along with the audio, take notes and work problems. The study notebooks are designed to encourage participation by the student. By following along with the audio, taking notes and entering key code references, key study areas are highlighted and made easier to remember.

### Item No.: FTP4ns Fire Alarms Study Notebook Set Member Price: \$70.00 (AFSA members only)

This notebook set is included in the 3 Fire Alarms Audio Packages, but is made available as a separate purchase, if desired, using Item No. FTP4ns. The study notebooks allow you to follow along with the audio, take notes and work problems. The study notebooks are designed to encourage participation by the student. By following along with the audio, taking notes and entering key code references, key study areas are highlighted and made easier to remember.

## NICET Audio Packages

### Item No.: FTP2a NICET Automatic Sprinklers Audio Package – Levels I & II Member Price: \$467.00 (AFSA members only)

Contains 2 study notebooks (covering all Level I & II elements), 20 CDs with a running time of about twenty hours (like having your own personal instructor), sprinkler basics reference text with NICET tips addendum, and intermediate sprinkler principles text (covers 34 Level II elements). The detailed study notebooks are keyed to the audio discussions and highlight the references you will need for the exam. The Automatic Sprinklers Level I & II program contains individual discussions on each of the Level I & II work elements. The combination of audio training, coupled with your work in the study notebooks and the reference text, will equip you with the tools and knowledge you need to succeed on your NICET exam. This package contains study material for all NICET Automatic Sprinkler Levels I & II elements.

### Item No.: FTP2b NICET Automatic Sprinklers Audio Package – Levels III & IV Member Price: \$327.00 (AFSA members only)

Contains 1 study notebook (covering all Level III elements), 6 CDs with a running time over five hours (like having your own personal instructor), and a detailed study notebook is keyed to the audio discussions and highlights the references you will need for the exam. The Automatic Sprinklers Level III program contains individual discussions on each of the Level III work elements. The combination of audio training coupled with your work in the study notebooks will equip you with the tools and knowledge you need to succeed on your NICET exam. This package contains study material for all NICET Automatic Sprinkler Level III elements. *(NOTE: This Automatic Sprinklers audio package does not contain any Level IV work elements. Achieving Level IV certification in Automatic Sprinklers is dependent on passing additional Level III elements and your work experience. See NICET's Automatic Sprinkler System Layout Program Detail Manual for more information.)*

### Item No.: FTP5 NICET Automatic Sprinklers Audio Package – Levels I-IV Member Price: \$699.00 (AFSA members only)

**BEST VALUE** – Contains 2 study notebooks (covering all sprinkler work elements), 24 CDs with a running time of about twenty-four hours (like having your own personal instructor), sprinkler basics reference text with NICET tips addendum, and intermediate sprinkler principles text (covers 34 Level II elements)

### Item No.: FTP3a NICET Special Hazards Audio Program – Levels I & II Member Price: \$467.00 (AFSA members only)

Contains 2 study notebooks (covering all Level I & II elements), 17 CDs with a running time over nineteen hours, 1 special hazard basics reference text, 1 special hazard Level I NICET tips addendum. The detailed study notebooks are keyed to the audio discussions and highlight the references you will need for the exam. The Special Hazards Level I & II program contains individual discussions on each of the Level I & II work elements. The combination of audio training, coupled with the study notebooks and the reference text, will equip you with the tools and knowledge you need to succeed on your NICET exam. This package contains study material for all NICET Special Hazards Levels I & II elements.

## NICET Certification Study Kits cont. (FOR AFSA MEMBERS ONLY)

### Item No.: FTP3b

#### NICET Special Hazards Audio Program – Levels III & IV Member Price: \$233.00 (AFSA members only)

Contains 7 CDs with a running time of about six hours (like have your own personal instructor) & one special hazards study notebook (covering all Level III & IV elements). The detailed study notebook is keyed to the audio discussions and highlights the references you will need for the exam. Special Hazards Levels III & IV program contains individual discussions on each of the Level III & IV work elements. The combination of audio training, coupled with your work in the study notebooks and the reference text, will equip you with the tools and knowledge you need to succeed on your NICET exam. This package contains study material for all NICET Special Hazards Levels III & IV elements.

### Item No.: FTP6

#### NICET Special Hazards Audio Package – Levels I-IV Member Price: \$699.00 (AFSA members only)

**BEST VALUE** – Contains 24 CDs with a running time over twenty-five hours (like having your own personal instructor), 2 study notebooks (covering all Level I & II elements), 1 special hazard basics reference text, and 1 special hazard Level I NICET tips addendum. This package contains study material for all NICET Special Hazards work elements.

### Item No.: FTP4a

#### NICET Fire Alarms Audio Package – Levels I & II Member Price: \$351.00 (AFSA members only)

Contains 2 study notebooks (covering all Level I - IV elements), 17 CDs with a running time over eighteen hours (like having your own personal instructor), 1 fire alarm basics reference text (16 chapters), 1 NICET fire alarms Level I tips addendum, and 1 intermediate fire alarm principles text (26 chapters). The detailed study notebooks are keyed to the audio discussions and highlight the references you will need for the exam. The Fire Alarms Level I & II program contains individual discussions on each of the Level I & II work elements. The combination of audio training, coupled with your work in the study notebooks and the reference text, will equip you with the tools and knowledge you need to succeed on your NICET exam. This package contains study material for all NICET Fire Alarms Levels I & II elements.

### Item No.: FTP4b

#### NICET Fire Alarms Audio Package – Levels III & IV Member Price: \$245.00 (AFSA members only)

Contains 1 NICET fire alarm study notebook, and 7 CDs with a running time of about six hours. The detailed study notebook is keyed to the audio discussions and highlights the references you will need for the exam. The Fire Alarms Level III & IV program contains individual discussions on each of the Level III & IV work elements. The combination of audio training, coupled with your work in the study notebook, will equip you with the tools and knowledge you need to succeed on your NICET exam. This package contains study material for all NICET Fire Alarms Levels III & IV elements.

### Item No.: FTP7

#### NICET Fire Alarms Audio Package – Levels I-IV Member Price: \$507.00 (AFSA members only)

**BEST VALUE** – Contains 2 study notebooks (covering all Level I - IV elements), 24 CDs with a running time over twenty-five hours (like having your own personal instructor), one fire alarm basics reference text (16 chapters), one NICET fire alarms Level I tips addendum, and one intermediate fire alarm principles text (26 chapters).

## NICET Combination Packages

### Item No.: FTP8

#### Special Hazards & Automatic Sprinklers Combo Audio Program

#### Member Price: \$964.00 (AFSA members only)

Contains both the Special Hazards Complete and Automatic Sprinklers Complete packages.

### Item No.: FTP9

#### Fire Alarms & Automatic Sprinklers Combo Audio Program

#### Member Price: \$964.00 (AFSA members only)

Contains both the Fire Alarms Complete and Automatic Sprinklers Complete packages.

### Item No.: FTP10

#### Fire Alarms & Special Hazards Combo Audio Program

#### Member Price: \$964.00 (AFSA members only)

Contains both the Fire Alarms and Special Hazards Complete packages.

### Item No.: FTP11

#### Complete Audio Library – Automatic Sprinklers, Special Hazards, Fire Alarms

#### Member Price: \$1323.00 (AFSA members only)

Contains all NICET Complete packages in Automatic Sprinklers, Special Hazards, and Fire Alarms.

## NICET Study Guide for Inspector Certification

### Item No.: AF114

#### Inspection & Testing of Water-Based Systems Handbook – All Levels

#### Regular Price: \$195

#### Member Price: \$170

The Inspection and Testing of Water-Based Systems Handbook is LERC's newest handbook for teaching ALL levels of this certification program. This step-by-step guide was prepared by two authors with a combined 55 years experience. This volume covers ALL levels of testing for Inspection and Testing certification.

As more states are now requiring certification (as noted in many of the NFPA standards) it has become a necessity to become certified in your work area of the fire sciences. This book will help get the user over the hump to receive that certification. Many states have made certification in this field a requirement with more to follow.

The Inspection and Testing Handbook clarifies the requirements necessary for this certification, and, should help you pass the exam, at any level. Of course, as with all professional exams you will also need to have work experience and the supervisor evaluation. Following the guide is a review of all Levels and is followed, as always by, a glossary of terms, and a number of appendixes. Spiral Bound (625 pages, ©2008).

## NICET Element Review Handbooks

### Item No.: AF112

#### N5 NICET Element Review - Levels I & II

#### Regular Price: \$110

#### Member Price: \$85

Currently considered an important evaluation process in 20+ states and in some there are requirements for NICET certification for system designers, installers, and contractors. It is expected that even more states will follow. This handbook clarifies the requirements necessary for certification you will need in supervisor evaluation. Includes a review of all Levels 1 and 2 elements, a glossary of terms and a number of appendixes.

### Item No.: AF113

#### N6 NICET Element Review - Levels I-IV

#### Regular Price: \$160

#### Member Price: \$135

This handbook is the definitive volume on NICET automatic sprinkler exam material. This 7-section manual covers all 70 elements, everything a person could want in a reference manual for passing all four levels of the NICET exams. Starting with the first section on how to get involved with NICET, this handbook's useful information guides you through all three sets of elements used to complete the four levels of sprinkler exams, describes extra steps necessary to get the Level 4 certification, and includes updated appendixes and glossary.

# Seminars and Schools

## Virtual Training

[www.firesprinkler.org/calendar.cfm](http://www.firesprinkler.org/calendar.cfm)

The AFSA offers numerous Web-based seminars – or webinars – each year on technical and non-technical topics, sometimes teaming with other industry organizations such as NFPA and CLSE. These seminars are typically 90 minutes and can be accessed with an Internet connection. Check the AFSA Training Calendar, using the web address above, to see what webinars are coming soon.

## Fire Sprinkler eCampus

[www.firesprinkler.org/training/ecampus.html](http://www.firesprinkler.org/training/ecampus.html)

AFSA's Fire Sprinkler eCampus offers contractors, system layout technicians, and architects a wide variety of education opportunities in areas such as hydraulic calculations, sprinkler system layout, project management, AutoCAD, safety training, and a whole host of other subjects. This new delivery method is a very convenient way to obtain continuing education and professional development courses online 24/7 and new courses are added throughout the year.

### Hydraulic Calculations Series (Parts 1, 2, 3)

This series of courses cover the topic of hydraulic calculations for automatic sprinkler systems. The courses are designed to assist system layout technicians and others seeking NICET certification and for AHJs desiring an understanding of calculation models and applications. Upon completing this series, students will understand hydraulic concepts including pressure, density, area of coverage, friction loss; be familiar with formulas for calculation area of operation, minimum flow, and K-factors; perform simple, single line calculations; understand principle of elevation pressure; utilize Hazen-Williams formula; understand how to use equivalent lengths; calculate sprinkler flows for multiple sprinklers; evaluate minimum water supply needs; understand principles behind selecting design areas; explain hydraulic junction points and pressure balancing; and use hydraulic worksheets to complete hydraulic calculation of dead-end (tree) system.

### Applied Sprinkler Technology Series

This new series is a complete update to the correspondence course version of Applied Sprinkler Technology (see pg 4). Each lesson will be updated to the 2007 Edition of NFPA 13 and will take the beginner system layout technician through advanced design of fire sprinkler systems. Lessons will be added throughout the year and will cover a wide range of design subjects, such as piping materials and types of systems; hangers and supports; occupancies and hazard classifications; sprinkler spacing and position; sprinkler layout and system configurations; storage criteria; material takeoff, sleeving, and drains; and design drawings and specifications.

Members should login to take advantage of member discounts. Non-members may view or purchase courses without member login, but will not receive the discounted member price. Pricing varies, available online only.

## eLearning

[www.firesprinkler.org/training/elearning.html](http://www.firesprinkler.org/training/elearning.html)

Educate your supervisors on labor and union issues at exclusive AFSA prices. (\*\*Available online only.)

### "Catch Phrase" for Supervisors

**Program - \$30.00\*\***

If an employee says, "I know the plant down the street is unionized and they get \$1.25 more an hour," do your supervisors know what to say? A completely unique resource, "Catch Phrase" highlights the key conversations Supervisors can encounter when talking to employees about unions, and gives them the knowledge they need to help employees understand the reality of life with a union.

### Supervisor Labor Relations Training

**6 module program (4 hours of training) - \$30.00\*\***

Simply the best Labor Relations training for Supervisors and Managers. Your Supervisors and Managers know the company's union-free philosophy and what it means - but do they know how to put that philosophy into action? "Supervisors Can Keep You Union Free" provides the supervisory training and the tools they need to make unions unnecessary.

This Supervisor Labor Relations Training Includes:

- How Unions Affect Companies and Supervisors
- How To Make Unions Unnecessary
- How To Stop Cardsigning
- How To Communicate to Employees During a Union Campaign
- Getting "NO" Votes
- and a bonus training module on the Employee Free Choice Act.

## Schools

For details on location, dates, times, accommodations and costs, contact AFSA at 214-349-5965 or visit [www.firesprinkler.org/](http://www.firesprinkler.org/).

### Beginning Fire Sprinkler System Planning School

**Regular Price: \$1600.00**

**Member Price: \$1100.00**

Throughout the year, AFSA offers its System Planning School which presents a comprehensive, practical approach to preparing fire sprinkler system drawings. Students receive two full weeks of instruction, 60 percent of which is study and review of NFPA 13, and 40 percent is preparation of fire sprinkler system layout, shop drawings and hydraulic calculations.

The school is designed to train a beginner to be productive immediately upon returning to work. This class is designed for those with no experience or those who need assistance with design. The students learn by actually planning and drawing sprinkler systems while studying and applying NFPA 13 (2010 Edition).

This school will prepare the student to:

- Accelerate the comprehension of plans and various types of building construction for proper sprinkler spacing applications;
- Determine the proper and economical planning of sprinkler system layout and installation methods;
- Know the importance of sprinkler specifications, types of pipe, hangers, fittings, flow tests, etc.;
- Learn to develop shop drawings from start to finish;
- Learn to coordinate with other trades — plumbing, mechanical, structural and electrical;
- Perform manual Hydraulic Calculations. (This prepares the student for an easier decision-making process when using a computer to perform hydraulics.)

### System Layout School for Residential One- & Two-Family Dwellings

**Regular Price: \$1150.00**

**Member Price: \$750.00**

This five-day class will provide basic training in the layout and calculation of a residential fire sprinkler system. The class will discuss the stand alone, multipurpose, and the flow-through system types. The topics covered during the class will be: how to determine water supply, material selection, the requirements of NFPA 13D and the IRC. The course will include fire sprinkler system layout and hydraulic calculation exercises.

This class is geared towards those with limited experience who need assistance with design & those wanting to refresh their experience. Upon completion of this class, the student should understand the basics of residential layout and how to apply NFPA 13D and P2904 of IRC.

# Other Educational Resources

## Center For Life Safety Education

### www.clse.org

Several online seminars are available from the Center for Life Safety Education (CLSE), a not-for-profit educational affiliate of the AFSA. Continuing education credits are available.

Current offerings include:

- Understanding Protection Methods for Storage Facilities
- Seismic Design for Fire Sprinkler Systems
- Introduction to IBC and IFC Building Codes
- UL Listings and FM Approvals
- NFPA 13 Changes for the 2007 Edition
- 10 Common Design Mistakes & How to Avoid Them
- Residential Sprinkler Application
- Seismic Design for Fire Sprinkler Systems
- PRV - Pressure Reducing Valves

### An AHJ's Guide to Fire Sprinkler Systems - Fire Sprinklers 100, 200, & 300 Series

To aid in the contractor/AHJ relationship and the long-term reliability of future fire sprinkler installations, CLSE has developed a series of affordable, easy-to-access online seminars designed to assist inspectors and plan reviewers in gaining a more thorough understanding of fire sprinkler systems installations: how they are designed, how they follow NFPA standards, and what to look for to ensure that they meet the goal of good fire protection. These programs have been developed in series, with each three-part level building upon the understanding gained in earlier programs.

#### Fire Sprinklers 101 – Introduction, Building Codes, Water Supplies

Roughly 90 minutes, FS101 focuses on three critical considerations: choosing the correct sprinkler standard, water supply and arrangement appropriate to the selected standard, and occupancy. The course addresses what the AHJ should look for from the building owner, the sprinkler layout technician/designer, and the fire sprinkler contractor; discusses the scope of NFPA 13; and discusses the use of formal and informal interpretations of NFPA standards.

#### Fire Sprinklers 102 – Occupancy Classifications, Types of Systems & Sprinklers

The critical topics covered in FS102 is acceptable water supplies and the requirements for water main supplies found in NFPA 24 and the installation rules in NFPA 13. FS 102 also explains occupancy classifications and how they impact fire sprinkler spacing and the amount of water (density) required. The course discusses the evaluation of commodity classes; type of structure/ceiling type & how they impact design issues; types of systems, where they are used & their limitations; and types of sprinklers.

#### Fire Sprinklers 103 – Design Options

FS103 covers what the AHJ should expect the owner to provide; discusses control versus suppression, design approach choices, density/area curves; and addresses restrictions, modifiers, area adjustments, as well as room design method applications and storage occupancies.

#### Fire Sprinklers 201 – Reading the Plans

FS201 will provide information to increase your understanding of what you should be able to determine from the plans and other submittal documents, and on the relevance of what is presented on those documents to the eventual approval, acceptance, or rejection on the part of your jurisdiction for the project under consideration on those plans.

#### Fire Sprinklers 202 – Introduction to Hydraulics

FS202 will focus on the review and analysis of the hydraulic calculations which are used to support the design of automatic sprinkler systems. This program is not intended to conduct an in-depth explanation of the science of hydraulics, which is not the focus of this program. For an in-depth course on learning hydraulic calculations, go to the Fire Sprinkler eCampus.

#### Fire Sprinklers 203 – Introduction to System Acceptance

The final 90-minute segment of this 200 level series is an introduction to the processes and procedures required for acceptance and placing a fire sprinkler system into service. There are a number of activities that must be undertaken prior to signing off on the installation of a fire sprinkler system, and there is a substantial amount of paperwork required to support those activities and verify that they have indeed taken place. This program discusses the types of tests that must be performed and documentation that verifies the success of those tests.

#### Fire Sprinklers 301 – Introduction to Storage Occupancy Protection

CLSE 301 discusses the basics of Storage Protection based on the building codes, as well as the storage chapters of NFPA 13, 2007 edition. It answers the questions: What is storage? When is it storage? What do we mean by storage occupancies? and, How do we protect storage occupancies?

#### Fire Sprinklers 302 - *Coming Soon!*

#### Fire Sprinklers 303 - *Coming Soon!*

### Review of Residential Fire Sprinkler Systems for One- and Two-Family Dwellings

This two-part program describes the review process of fire sprinkler systems for one- and two-family dwellings, in accordance with the NFPA 13D standard (2007 edition).

#### Fire Sprinklers 501 – Part 1: Design & Installation Concepts

This seminar, Part 1 of CLSE's program on Plan Review and Acceptance of Residential Fire Sprinkler Systems designed in accordance with NFPA 13D, describes: the history of the NFPA 13D standard, and how it differs from NFPA 13 and NFPA 13R; Exceptions allowed by NFPA 13D in certain circumstances; Water supply requirements and how they are determined and evaluated; Residential sprinkler spacing and location; Residential sprinkler coverage areas, temperature ratings, and obstructions to discharge; Applicable pipe and fittings; Multipurpose and Stand-alone piping systems; and Concepts and considerations used in residential system hydraulic calculations. This is meant as a prerequisite to Fire Sprinklers 502.

#### Fire Sprinklers 502 – Part 2: Review of Plans & Submittals

This seminar, Part 2 of CLSE's program on Plan Review and Acceptance of Residential Fire Sprinkler Systems designed in accordance with NFPA 13D, leads the student through the detailed step-by-step process of reviewing a fire sprinkler system plan designed for protection of a single-family home. Supplemental documents, available to the student as downloadable pdf files, provide a copy of the plan to be reviewed, as well as supporting data sheets, hydraulic calculations, and a sample plan review checklist. This seminar should require two and one-half hours to complete and is meant to follow the prerequisite Part 1, which introduces the student to design and installation concepts of residential fire sprinkler systems.

#### Pressure Reducing Valves

This 70-minute program covers a brief background of pressure reducing valves (PRVs), including building code requirements, NFPA 14 requirements, NFPA 13 requirements, definitions (NFPA 14), how to identify PRV makes/models, and characteristics of PRVs; direct-acting PRVs, factory set and field adjustable types; sprinkler floor control valves (generally in-line type); standpipe hose valves (generally angle type); pressure control valves. Also included is discussion from the Authority Having Jurisdiction's point of view regarding design and plan review issues; inspection testing and maintenance issues; and fire department operation issues.

**Visit [www.clse.org](http://www.clse.org) periodically to check for additional educational offerings.**

# Traveling Seminars

AFSA offers several different seminars throughout the year in different parts of the country. Seminars can usually be customized to fit your needs. For more information concerning location, dates and times, contact Leslie Clounts at lclounts@firesprinkler.org or (214) 349-5965 ext. 130, or visit <http://www.firesprinkler.org>

## Fire Sprinkler Design: A Closer Look at Why, When and Where

Automatic fire sprinkler systems have systematically ascended to the most significant attribute a building can have when striving to meet the programming goals for the corresponding levels of life safety. Just one look at the alternate design features a building can use if a fire sprinkler system is installed and it is easy to conclude that a considerable amount of confidence has been placed on their ability to control or suppress a fire. Tripling the allowed square footage or adding multiple floors or even doubling the required exiting distance are just a few of the major substitutions currently being allowed by two of the most widely used building codes. So it stands to reason that if we are going to assert confidence in a system such as this, it is imperative that it is designed and installed correctly. This seminar has been designed to examine those practices and methodologies associated with the most critical aspects of fire sprinkler design: occupancy and hazard selection, and sprinkler spacing and location. Those who are new to fire sprinklers as well as those seasoned veterans will find this seminar to be packed with valuable material that will immediately be put to use. Contractors, engineers, AHJs, and inspectors will all benefit.

8 Credit/Contact Hours; 8.0 CPDs (NICET); 0.8 CEUs

## 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.

8 Credit/Contact Hours; 8.0 CPDs (NICET); 0.8 CEUs

## NFPA 13 (2007 Ed) Installation of Sprinkler Systems - Update

The 2007 edition of NFPA 13 is out and the changes are significant. This 4-hour seminar leads the attendees through a review of the most substantial changes from the 2002 edition and the impact upon the industry. This seminar will benefit contractors, designers, Authorities Having Jurisdiction, and anyone who deals with the design and installation of fire sprinkler systems.

4 Credit/Contact Hours; 4.0 CPDs (NICET); 0.4 CEUs

## NFPA 13 (2007 Ed.) Installation of Sprinkler Systems – 2 Days

This two-day seminar includes an extensive review of the design, installation, and plan review requirements for all types of fire sprinkler systems, underground fire service mains, earthquake bracing, and hydraulic calculations. Major changes from the 2002 edition will be highlighted. Subjects also covered include an overview of requirements for storage occupancies including ESFR and Large Drop sprinkler applications as well as residential sprinklers, hydraulic calculation requirements and earthquake brace calculations for sprinkler systems.

16 Credit/Contact Hours; 16.0 CPDs (NICET); 1.6 CEUs

\*\*\* The two-day seminar does not cover the depth of application and hands on problem solving for Storage Occupancies covered in the three day session.

## NFPA 13 (2007 Ed.) Installation of Sprinkler Systems – 3 Days

The 2007 edition of NFPA 13 is now available and being adopted throughout the country. Staying current with the changes and added requirements has never been more important. This 3-day seminar has been designed to provide a complete review of the critical issues that affect the design and installation of sprinkler systems. Days 1 and 2 include a chapter-by-chapter discussion of all 26 chapters in this standard. Day 3 focuses entirely on storage occupancies (chapters 12 thru 18). Participants are given many opportunities to contribute to discussions of real life situations and issues. Anyone involved with designing, specifying, or reviewing fire sprinkler systems will benefit from this seminar. Please bring a copy of NFPA 13 and scientific calculator.

24 Credit/Contact Hours; 24.0 CPDs (NICET); 2.4 CEUs

## NFPA 13 (2007 Ed.) Installation of Sprinkler Systems – Ch. 8 Sprinkler Installation

Chapter 8 contains most of the requirements for the design and installation of fire sprinkler systems. This 8 hour seminar focuses on solving real world problems facing designers, field personnel, and Authorities Having Jurisdiction. Topics covered include requirements for sprinkler use, coverage, spacing, location (with heavy emphasis on obstructions), valves, system drainage, system appurtenances, and hose connections. In today's world of evolving technology, increasingly complex buildings, and fast track construction it is crucial to understand the intricacies of sprinkler design and field applications. This thorough review of NFPA 13 chapter 8 will open the way for this understanding.

8 Credit/Contact Hours; 8.0 CPDs (NICET); 0.8 CEUs

## NFPA 13 (2007 Ed.) Installation of Sprinkler Systems – Ch. 12 Storage Occupancies

The 2007 edition of NFPA 13 reorganized the requirements for the protection of storage found in Chapter 12 of previous editions. Chapter 12 has been expanded into 8 chapters and organized by storage method, commodities, and type of protection. This one-day seminar is presented as the 3rd day of the NFPA 13 three-day seminar or as a one-day program for those interested in an in-depth look at storage occupancy requirements and design approaches. This seminar includes a complete review of the design and installation requirements for Storage Occupancy use groups, including definition of terms, design approaches with the wide variety of protection options including Control Mode Standard Sprinklers, Large Drop, ESFR and Special Application Storage Occupancy sprinklers. This seminar benefits Designers, Contractors, Architects, Code Officials, Plan Checkers, and Inspectors. This presentation incorporates group activities and problem solving for a workshop atmosphere and hands-on learning experience. Participants should bring a scientific calculator, highlighter and a copy of the 2007 edition of NFPA 13.

8 Credit/Contact Hours; 8.0 CPDs (NICET); 0.8 CEUs

## NFPA 14 (2007 Ed.) Standard for the Installation of Standpipe and Hose Systems

This seminar is designed to provide an overview of the standard as well as specific chapter-by-chapter discussion highlighting the specific requirements for the design and installation of standpipe systems and related components. Participants will gain a greater understanding of the organization and layout of NFPA 14 and how standpipes are utilized in fire fighting techniques. Estimators, engineers, designers, field personnel, inspectors, and plan reviewers will all benefit from this information packed seminar. Participants should bring copies of NFPA 13 and 14 along with a scientific calculator.

4 Credit/Contact Hours; 4.0 CPDs (NICET); 0.4 CEUs

## Traveling Seminars Cont.

### NFPA 20 (2007 Ed.) Standard for the Installation of Stationary Fire Pumps for Fire Protection

This has been designed to give attendees a detailed review of the requirements for design, selection, and installation of pumps supplying water for private fire protection systems. Included in the seminar is a valuable exercise in proper selection of a fire pump for the specific requirements of a fire protection system. Information regarding suction and discharge piping, valves, fittings as well as power supply and control equipment and acceptance testing are also a part of the presentation. Additionally, a review of the requirements for inspection, testing and maintenance as enumerated in NFPA 25 ('02 edition) will be discussed. This seminar can be presented in a 4-hr or 8-hr format.

8 Credit/Contact Hours; 8.0 CPDs (NICET); 0.8 CEUs  
4 Credit/Contact Hours; 4.0 CPDs (NICET); 0.4 CEUs

### NFPA 25 (2008 Ed.) Standard for the Inspection, Testing & Maintenance of Water-Based Fire Protection Systems

This one-day seminar provides a comprehensive review of the 2008 edition of NFPA 25. Attendees will learn the scope of the standard, the owner's responsibilities, requirements for record keeping, as well as the liabilities associated with performing this work on a contracted basis. The changes from the 2002 edition will be highlighted along with the ongoing interpretations of how to apply the requirements of the standard. Attendees will participate in an in depth discussion regarding the inspection and testing of wet and dry sprinkler systems, standpipe and hose systems, fire pumps, and the associated valves used in these systems. Attendees will leave the seminar with a greater understanding on how to apply the requirements for all water-based systems. If you are a contractor, inspector, building owner or manager, AHJ, or engineer this seminar is for you.

8 Credit/Contact Hours; 8.0 CPDs (NICET); 0.8 CEUs

### Plan Review

This introductory seminar has been designed to lead attendees through the process of reviewing fire sprinkler shop drawings including hydraulic calculations. Using the 2002 edition of NFPA 13 as a guide, the participants will systematically learn how to apply the basic guidelines that were written decades ago to the reality of 21st century construction and building techniques using actual plans and calculations from current projects. We will review such topics as how to identify construction types, hazard classifications, sprinkler spacing and locations, valve arrangements, sprinkler exemptions and other system installation requirements. These topics as well as a complete overview of all the issues surrounding the hydraulic calculation process will be discussed. Also included will be discussions about water supply, occupancy classifications, density selection, remote area sizing and locations and reading calculations. This seminar relies heavily on class participation. Plan Reviewers, Fire Inspectors, Insurance Representatives, Architects & Engineers will all find this to be a very beneficial source for information and learning.

8 Credit/Contact Hours; 8.0 CPDs (NICET); 0.8 CEUs

### Project Management

Project Management has become one of the fastest growing positions in the construction industry. No longer are general contractors the only ones who have such a position in their organization. In fact, almost every contractor on a job site today has someone who is designated with this title. Fire protection contractors are no different. Finding qualified people for this extremely demanding position is difficult. Therefore, many have turned to within their organizations to recruit and promote individuals to perform in this capacity. It is very common in today's construction environment to find key personnel, such as designers and field superintendents, in these project management roles as well. Most of them have had to learn the hard way until now. This program will introduce attendees to the world of project management. This presentation includes an overview of project management and more specifically the procedures and forms intended to be utilized in organizing and managing projects, limiting liability and providing a systematic, team-spirited approach to problem solving. This seminar is introductory and is intended for Owners, Project Managers, Superintendents, Operational People, Key Foremen and Accounting Managers.

4 Credit/Contact Hours; 4.0 CPDs (NICET); 0.4 CEUs

### Residential Sprinkler Systems – NFPA 13D, 13R, & 13

This seminar will address the design and installation requirements of NFPA 13D, Standard for Installation of Sprinklers in One- and Two-Family Dwellings and Manufactured Homes, 2007 edition, including water supply requirements, along with new requirements in the 2010 edition of NFPA 13D. The program will include an overview of the new requirements for residential sprinklers provided in the recently adopted requirements of the International Residential Code (IRC). We will also highlight the differences in design requirements and water supplies for residential sprinkler systems designed to the NFPA 13R and NFPA 13 standards.

This 8-hour program will include:

- Overview and layout of the NFPA Residential Sprinkler Standards
- Residential System Components and Hardware Requirements
- Sprinkler types, spacing and location requirements
- Installation requirements
- Hydraulic Calculations with participant exercises
- Overview of Residential Systems designed per NFPA 13 & 13R
- IRC Requirements

Participants should bring or be prepared to purchase a copy of NFPA 13D onsite. It will also be helpful to have NFPA 13R and 13 on hand. A handheld calculator with [ $\sqrt{\quad}$ ], [ $Yx$ ] or [ $\wedge$ ] (exponential) functions will also be needed.

8 Credit/Contact Hours; 8.0 CPDs (NICET); 0.8 CEUs

### Seismic Protection of Sprinkler Systems

Protection of fire sprinkler systems from damage due to seismic activity has been a part of our industry for more than 60 years. Historically, there are many areas of the country that have paid little attention to these concerns, however, with the advent of a more comprehensive building code, a new emphasis has been placed on this topic. Many jurisdictions that never before addressed seismic issues are now paying close attention to the provisions of the building code, structural code, and NFPA 13 in order to comply with the provisions in those documents for seismic protection. This seminar is designed to give attendees a working knowledge of the six distinct segments of seismic protection in NFPA 13: flexible couplings, clearance, seismic separation, bracing, restraint, and revisions to hanger requirements. Class exercises will help participants become familiar with the various requirements and the concerns that may force revisions to the bracing layout from initial estimates. Estimators, designers, and AHJs should benefit from this seminar. A handheld calculator is recommended for all who attend.

4 Credit/Contact Hours; 4.0 CPDs (NICET); 0.4 CEUs

# Public Education Resources

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## AFSA Products

**Item No.:AF130**

**Man-Made Disasters: Escape-Proof Fire Traps**  
*(produced by AFSA)*

On Loan to AFSA Members & AHJs

AFSA video Man-Made Disasters was designed to assist AFSA Members and Authorities Having Jurisdiction in their efforts to sell the concept of automatic fire protection in the form of fire sprinklers. Much of the video provides a detailed account of the devastating losses that occurred in 1980 at the MGM Grand Hotel in Las Vegas. It includes interviews with Las Vegas fire officials who clearly explain the success of the fire sprinklers in areas of the building that were sprinklered, and the fact that the disaster could have been avoided had the entire building been sprinklered. Included is a packet of information about how to respond to local area fires and gain valuable media coverage.

## HFSC Products

To place an order, write: Home Fire Sprinkler Coalition, 32 West Nebraska St. Ste 1C, Frankfort, IL 60423; call 1-877-550-HFSC (4372); or visit HFSC's Web site, [www.homefiresprinkler.org](http://www.homefiresprinkler.org)

**Controlling the Home Fire Threat Guide**  
*(produced by HFSC)*

**Price: \$50.00 per pack**

This 8-page brochure provides more detailed information about home fires and residential sprinkler facts, includes commonly asked questions and answers, advice on how to select home fire sprinkler system and how to work with a builder when choosing a sprinkler system in a new home. Packs of 50.

**Home Fire Sprinkler System Public Educator Kit**  
*(produced by HFSC)*

**Price: \$25.00 per pack**

All the tools to help public educators increase awareness of the benefits of residential fire sprinklers. Contains the Protect What You Value Most video, Home Fire Sprinkler System Facts, a 45-minute Lesson Plan, Pre- and Post-Tests and Media Kit material.

**Protect What You Value Most Brochure**  
*(produced by HFSC)*

**Price: \$15.00 per pack**

This compact tri-fold brochure includes home fire facts, home fire sprinkler information, a graphic description of how sprinklers operate, cost information and answers to common misconceptions. Packs of 50.

# AFSA Product Order Form

(Photocopy For Future Use)

Name \_\_\_\_\_  
 Title \_\_\_\_\_  
 Company \_\_\_\_\_  
 Address \_\_\_\_\_  
 City/State/Zip \_\_\_\_\_  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_  
 Email (for shipment tracking) \_\_\_\_\_  
 Daytime Telephone \_\_\_\_\_  
 (In case, we have a question about your order.)

### Three easy ways to order

1. **Mail completed form with payment to:**  
 AFSA c/o Wells Fargo Bank  
 P.O. Box 200201  
 Dallas, TX 75230-0201
2. **If paying by credit card,**  
 fax this form to (214) 343-8898.
3. **Order online (members only)**  
[www.firesprinkler.org](http://www.firesprinkler.org)

### Payment (Note: Orders cannot - and will not - be processed without payment.)

- Check Make checks payable to AFSA, drawn in US\$ from a US bank.  
 Visa  MasterCard Sorry, Visa or MasterCard only.

Card Number Exp. Date

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**Verify your card (required):**

Zip Code associated with billing address \_\_\_\_\_ Security Code 3 or 4 digit # \_\_\_\_\_

Print Name as it appears on card \_\_\_\_\_

Authorized Signature for credit card charge \_\_\_\_\_

### For Correspondence Courses

Student Name(s) \_\_\_\_\_  
 Student Social Security # \_\_\_\_\_  
 Student Email \_\_\_\_\_  
 Company Training Coordinator Name \_\_\_\_\_  
 Company Training Coordinator E-Mail \_\_\_\_\_  
 Require Proctor Password for online testing

Item No.	Product Title	Quantity	Price Each*	Quantity x Price= (Total)

### POSTAGE & HANDLING

**Standard UPS Ground**

Order Value (US\$)	Add
Up to \$50	\$7
\$51 - \$100	\$8
\$101 - \$200	\$10
\$201 - \$500	\$12
\$501 - \$1000	\$18
\$1001 - \$2500	\$25
\$2501 - \$5000	\$30
\$5000+	\$50

**2nd Day Air**

- **Add \$15** to amount above for each correspondence course ordered, or
- **Add \$15** to regular shipping amount above for orders other than courses.

**All International & Next Day Orders**  
 Call (214) 349-5965 for shipping amount

<b>Subtotal</b>	
<b>Postage &amp; Handling</b> <small>See chart to right</small>	
<b>Orders shipped to a Texas address</b> <small>add 8.25% sales tax</small>	
<b>TOTAL</b>	

**NOTE: THERE IS A 15 % RESTOCKING FEE CHARGED ON ALL RETURNS**  
\* Prices in the AFSA Product Catalog are subject to change without notice

## QUESTIONS?

### Call AFSA at (214) 349-5965



**12750 Merit Drive, Suite 350, Dallas, Texas 75251**  
**214.349.5965 • Fax: 214.343.8898**  
**[www.firesprinkler.org](http://www.firesprinkler.org) • [afsainfo@firesprinkler.org](mailto:afsainfo@firesprinkler.org)**