



THE CHARLOTTE FIRE DEPARTMENT PRESENTS
Pressure Reducing Valves and Seismic Protection
Based on 2016 Editions of NFPA 13 and NFPA 14
Charlotte, NC • Friday, Dec. 10, 2021

The Charlotte Fire Department is pleased to host a full day of training on *Pressure Reducing Valves and Seismic Protection Based on the 2016 Editions of NFPA 13 and NFPA 14*. The seminar, instructed by Travis Mack, CFPS, CWBSP, RME-G, SET, includes Continuing Professional Development (CPD) credits for NICET* and Continuing Education Units (CEU), is proudly hosted by the **Charlotte Fire Department**, and presented by the **American Fire Sprinkler Association**.

LOCATION

Charlotte Police & Fire Training Academy
1770 Shopton Road
Charlotte, NC 28217

Gates open 7:00 am, the building opens at 7:15 am. Use entrance off of Beam Road by the Fire Tower. Once on property, use front entrance of the building.

Schedule: Friday, Dec. 10, 2021

7:30 am – 8:00 am Sign-In, Late/On-Site Registration
 8:00 am – 12:00 pm Seminar
 12:00 pm – 1:00 pm Lunch, sponsored by **tyco**
 1:00 pm – 5:00 pm Seminar



Mecklenburg County currently has Covid restrictions in place; masks will be required inside.



American Fire Sprinkler Association

Continuing Education Credits

0.8 Continuing Education Units
8.0 Contact Hours

8.0 NICET Continuing Professional Development Credits*



PREFERRED EDUCATION PROVIDER

Registration: Fees shown below include everything in the schedule listed above, including lunch.

AHJ

FREE

AFSA Member

\$25

Non-Member

\$50

Contractors and AHJs eligible for free AFSA trial membership, visit www.firesprinkler.org/trial

Name _____
 Email _____
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Total Due \$ _____
 MasterCard/Visa/AMEX: _____
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 Print Name _____
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Submit completed form with credit card payment to: mmartinez@firesprinkler.org

Submit with check payment to American Fire Sprinkler Assn. c/o Wells Fargo Bank | PO Box 200201 | Dallas, TX 75320-0201

Classes subject to minimum registration. Contact Maricarmen Martinez: 214.349.5965 x132 | mmartinez@firesprinkler.org

All participants are strongly encouraged to bring the applicable NFPA standards with you to class. The course will focus heavily on the standards and may reference numerous NFPA figures and tables. Images from NFPA standards may not be made available to you by the instructor or in-class materials. It is critical to bring the standard(s) with you to class to refer to as the instructor leads. You can access the standards for free online at [NFPA.org/freeaccess](https://www.nfpa.org/freeaccess).

Pressure Reducing Valves and Seismic Protection Based on the 2016 Editions of NFPA 13 and NFPA 14

This first part of this seminar provides attendees with introductory knowledge of items for consideration when utilizing pressure reducing valves, including when they are required. Discussion is included on how to determine friction losses required to be represented in the hydraulic calculation programs. A method for use when performing acceptance testing with PRV hose valves on standpipes will also be presented. The second portion of this seminar introduces items for consideration when providing protection for automatic sprinkler systems from damage as a result of seismic events, including allowable omissions, and basic information on all six elements for such protection as provided in NFPA 13. Attendees will review definitions of various system components and locate the basic information on mandatory flexible couplings, seismic separation assemblies, clearance, sway bracing (lateral, longitudinal, and risers), restraint of branch lines, and modifications to hanger requirements in systems requiring seismic protection.

Upon completion of this seminar, the attendee should be able to:

1. Identify when pressure reducing valves are required.
2. Determine the friction losses required to be represented in the hydraulic calculation programs.
3. Describe a method to use when performing acceptance testing with PRV hose valves on standpipes.
4. Identify when seismic protection is required for a project.
5. List locations where flexible couplings are required.
6. Describe the location of seismic separation assemblies and the additional bracing required.
7. Calculate required clearance for penetrating non-frangible walls, floors, etc.
8. Define required locations for lateral, longitudinal, and riser braces.
9. Calculate horizontal seismic load for those braces.
10. Apply the layout of seismic restraint assemblies, both lateral and vertical.

Required materials to bring: NFPA 13 and 14 (2016 Eds.), handheld scientific calculator, face masks per Mecklenburg County Covid protocols.

Instructor: Travis Mack, CFPS, CWBSP, RME-G, SET

Travis Mack, SET, has been in the fire sprinkler industry for more than 30 years and is certified as a NICET Level IV Senior Engineering Technician in Automatic Fire Sprinkler Layout, NFPA Certified Fire Protection Specialist, and NFPA Certified Water Based Systems Professional. He is also an alternate for the technical committee on hanging and bracing. Travis owns and operates MFP Design, LLC, a fire sprinkler system design firm based in Gilbert, AZ. Over the years, MFP Design has been involved in projects ranging from single family homes to high expansion foam systems.

*Instruction proudly
sponsored by:*



DIRECTIONS

Directions to the Charlotte Police and Fire Training Academy can be found at this link: <https://goo.gl/maps/XdmLPQuu6yBhe6YF7>
Gates open at 7:00 am and the building opens at 7:15 am. Use the entrance off of Beam Road by the Fire Tower. Once on the property, use front entrance of building. Mecklenburg County currently has Covid restrictions in place and masks will be required inside.

***NICET**

To find out if you can claim NICET CPD points for these courses, please review Section 4.B of NICET's Recertification Policy: <https://www.nicet.org/recertify/>

CANCELATION POLICY

Cancelations must be made in writing on or before Dec. 3, 2021 in order to receive a refund. Cancelations after Dec. 3, 2021 are not eligible for a refund. You can submit your request to Maricarmen Martinez via email at mmartinez@firesprinkler.org.