



# **Fire Sprinkler Training Courses For 2016** Classes are offered only on Tuesdays and Wednesdays

	Class Title	Training Hours	Date	Time	Location	
1	Fire Sprinkler System Plan Review for Plan Reviewers (AHJ's)	8	<del>07/12/2016</del>	8:00 am to 5:00 pm		
2	NFPA 13D – Plumber Installed Residential Fire Sprinkler Systems	4	<del>07/13/2016</del>	8:00 am to 12:00 pm	Renton Fire Training Center 1900 Lind Ave SW Renton, WA 98057	
3	NFPA 24 – Fire Service Mains and their Appurtenances (Underground)	4	<del>07/13/2016</del>	<del>1:00 pm to 5:00 pm</del>		
4	Residential Sprinklers: NFPA 13, 13D and 13R	8	<del>07/26/2016</del>	8:00 am to 5:00 pm	CANCELLED – To Be Rescheduled	
5	NFPA 13 – 2016 Edition; Significant Changes	8	<del>07/27/2016</del>	8:00 am to 5:00 pm	CANCELLED – TO BE Rescheduled	

All classes will be taught by Fire Smarts, LLC of Gilbert Arizona. The maximum number of students for any class is 35. Classes with less than 10 people enrolled will be cancelled and may be rescheduled at a different location.





# Fire Sprinkler Training Courses For 2016

Classes are offered only on Tuesdays and Wednesdays

	Class Title	Training Hours	Date	Time	Location	
6	NFPA 20 – Fire pumps for fire protection, layout and sizing	16	8/9&10/2016	8:00 am to 5:00 pm	Commissioners Room 2120 N. Wilbur Road Spokane Valley, WA 99206	
7	Preparing for the NICET Exam – NFPA 25 - Inspection, Testing & Maintenance of Water-Based Fire Protection Systems	16	8/23&24/2016	8:00 am to 5:00 pm	West Pierce Fire & Rescue Station 5000 Steilacoom Blvd SW Lakewood, WA 98499	
8	Fire Sprinkler System Plan Review for Plan Reviewers (AHJ's)	8	9/13/2016	8:00 am to 5:00 pm	Kittitas Valley Fire & Rescue	
9	NFPA 13 – 2016 Edition; Significant Changes	8	9/14/2016	8:00 am to 5:00 pm	2020 Vantage Hwy Ellensburg, WA 98926	
10	Freeze protection requirements and options (dry systems, heat tape, etc)	8	9/20/2016	8:00 am to 5:00 pm	Kittitas Valley Fire & Rescue	
11	Fire Alarm Interconnectivity to the Fire Sprinkler System	8	9/21/2016	8:00 am to 5:00 pm	2020 Vantage Hwy Ellensburg, WA 98926	
12	Freeze protection requirements and options (dry systems, heat tape, etc)	8	9/27/2016	8:00 am to 5:00 pm	Shoreline Fire Department HQ	
13	Fire Alarm Interconnectivity to the Fire Sprinkler System	8	9/28/2016	8:00 am to 5:00 pm	17525 Aurora Ave North Shoreline, WA 98133	
14	Fire Pump Testing and Analysis	4	10/4/2016	8:00 am to 12:00 pm		
15	Internal Piping Assessment and Obstruction Investigation	4	10/4/2016	1:00 pm to 5:00 pm	South King County Fire Training Consortium	
16	NFPA 24 – Fire Service Mains and their Appurtenances (Underground)	4	10/5/2016	8:00 am to 12:00 pm	20811 84 <sup>th</sup> Ave South Suite 102 Kent, WA 98032	
17	NFPA 25 – Step by Step Testing Procedures	4	10/5/2016	1:00 pm to 5:00 pm		





# Fire Sprinkler Training Courses For 2016

Classes are offered only on Tuesdays and Wednesdays

	Class Title		Date	Time	Location
18	NFPA 20 – Fire pumps for fire protection, layout and sizing	16	10/11&12-2016	8:00 am to 5:00 pm	Woodinville Fire & Rescue # 31 17718 Woodinville/Snohomish Rd Woodinville, WA 98072
19	Hydraulic Calculations for Fire Sprinkler Systems - Intermediate	4	11/8/2016	8:00 am to 12:00 pm	
20	Hydraulic Calculations for Fire Sprinkler Systems - Advanced			1:00 pm to 5:00 pm	Woodinville Fire & Rescue #31
21	Seismic Protection for Fire Sprinkler Systems – Intermediate	4	11/9/2016	8:00 am to 12:00 pm	7718 Woodinville/Snohomish Rd Woodinville, WA 98072
22	Seismic Protection for Fire Sprinkler Systems – Advanced	4	11/9/2016	1:00 pm to 5:00 pm	
23	Fire Sprinkler System Requirements for Storage	8	11/29/2016	8:00 am to 5:00 pm	Glenwood Fire Station # 7 12603 NE 72 <sup>nd</sup> Ave
24	NFPA 13 – 2016 Edition; Significant Changes	8	11/30/2016	8:00 am to 5:00 pm	Vancouver, WA 98662
25	Freeze protection requirements and options (dry systems, heat tape,	8	12/6/2016	8:00 am to 5:00 pm	Lynnwood Fire Station #15 18800 44 <sup>th</sup> Ave West
26	Fire Alarm Interconnectivity to the Fire Sprinkler System	8	12/7/2016	8:00 am to 5:00 pm	Lynnwood, WA 98046





# Fire Sprinkler Training Courses For 2016

Classes are offered only on Tuesdays and Wednesdays

	Class Title		Date	Time	Location
27	Fire Pump Testing and Analysis	4	12/13/2016	8:00 am to 12:00 pm	
28	Internal Piping Assessment and Obstruction Investigation	4	12/13/2016	1:00 pm to 5:00 pm	Moses Lake Fire Department
29	NFPA 24 – Fire Service Mains and their Appurtenances (Underground)	4	12/14/2016	8:00 am to 12:00 pm	701 East Third Ave Moses Lake, WA 98837
30	NFPA 25 – Step by Step Testing Procedures	4	12/14/2016	1:00 pm to 5:00 pm	





10.Freeze protection requirements and options (dry systems, heat tape, etc..)Date: September 20, 2016Time: 8 am to 5 pmDuration: 8 Hours

#### **Course Synopsis:**

This 8-hour course will cover the NFPA standards requiring water-based fire protection systems to be protected against freezing. Examining the conditions that trigger mandatory freeze protection along with the approved options for meeting the requirement. The design limitations and economic impact (including maintenance) of using dry pipe systems, preaction systems, insulation, heat tracing, antifreeze solutions, and other potential protection methods will be examined.

Review items to be considered when making a choice on how best to provide adequate protection. Identify the consequences of inadequate freeze protection versus the building owners need for dependable and cost-effective fire protection.

Audience:	Contractors, COC's, AHJ

Required NFPA Standard: N/A

Kittitas Valley Fire & Rescue				
2020 Vantage Hwy				
Ellensburg, WA 98926				





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:					Date Received Course 10	
Employer / Agency:						Course 10
Mailing Address:						
City, State, Zip:						
Work Phone #:						
Lam attending as or	Sprinkler Industry			Local AHJ		Other
I am attending as or	Sprinkler 🗌	City/County Agency			Maintenance Staff	
on behalf of:	□ Other		State/Federal Agency		Agency	🗌 Student
F	Place a checkmar	k next to t	the cou	rse you're re	egisterir	ng for.
Course		Date				Location
10. Freeze protection requirements and options (dry systems, heat tape, etc)		September 20, 2016 8 AM to 5 PM		Kit	titas Valley Fire & Rescue 2020 Vantage Hwy	

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to <u>firesprinkler@wsp.wa.gov</u> or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
    - You <u>MUST</u> register with the SFMO to attend.
    - <u>No Walk-Ins</u> will be allowed.
- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





### **CLASS DESCRIPTION**

#### 11. Fire Alarm Interconnectivity to the Fire Sprinkler System

Date: September 21, 2016

Time: 8 am to 5 pm

Duration: 8 Hours

#### **Course Synopsis:**

This is 8-hour course will cover the interconnectivity of a fire sprinkler system and the fire alarm systems. Fire Inspections are required to ensure that critical building systems will function if they are needed. There are methods that will be discussed that will address how to comply with the requirements and describe some of the misunderstandings of the codes that apply to the testing and Inspection of fire protection systems and how the code is laid out.

Audience:	Contractors, COC's, AHJ
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Required NFPA Standard: N/A

Class 11 will be held at: Kittitas Valley Fire & Rescue 2020 Vantage Hwy Ellensburg, WA 98926





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 11
Employer / Agency:						Course 11
Mailing Address:						
City, State, Zip:						
Work Phone #:				Contact Pho	ne #:	
I am attending as or	Sprinkler Industry		Local AHJ			Other
-	Sprinkler			City/County Ag	ency	Maintenance Staff
on behalf of:	Other	Other State/Federal Agency			Student	
F	Place a checkmar	k next to t	the c	ourse you're re	egisterir	ng for.
Course	Date				Location	
11. Fire Alarm Intercon Fire Sprinkler Syste	September 21, 2016 Ki 8 AM to 5 PM			titas Valley Fire & Rescue 2020 Vantage Hwy Ellensburg, WA 98926		

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to <u>firesprinkler@wsp.wa.gov</u> or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
    - You <u>MUST</u> register with the SFMO to attend.
    - <u>No Walk-Ins</u> will be allowed.
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- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





12.Freeze protection requirements and options (dry systems, heat tape, etc..)Date: September 27, 2016Time: 8 am to 5 pmDuration: 8 Hours

#### **Course Synopsis:**

This 8-hour course will cover the NFPA standards requiring water-based fire protection systems to be protected against freezing. Examining the conditions that trigger mandatory freeze protection along with the approved options for meeting the requirement. The design limitations and economic impact (including maintenance) of using dry pipe systems, preaction systems, insulation, heat tracing, antifreeze solutions, and other potential protection methods will be examined.

Review items to be considered when making a choice on how best to provide adequate protection. Identify the consequences of inadequate freeze protection versus the building owners need for dependable and cost-effective fire protection.

Audience:	Contractors, COC's, AHJ

Required NFPA Standard: N/A

Class 12 will be held at:	Shoreline Fire Department				
	17525 Aurora Ave North				
	Shoreline, WA 98133				





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:					Date Received Course 12	
Employer / Agency:						Course 12
Mailing Address:						
City, State, Zip:						
Work Phone #:				Contact Phone	e #:	
Lam attending as or	Sprinkler Industry			Local AHJ		Other
I am attending as or	Sprinkler			City/County Agency		Maintenance Staff
on behalf of:	Other			State/Federal Agency		Student
F	Place a checkmark	next to t	he co	urse you're reg	isterir	ng for.
Course	2	Date				Location
12. Freeze protection requirements and options (dry systems, heat tape, etc)		September 27, 2016 8AM to 5PM			horeline Fire Department 17525 Aurora Ave North Shoreline, WA 98133	

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to <u>firesprinkler@wsp.wa.gov</u> or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
    - You <u>MUST</u> register with the SFMO to attend.
    - <u>No Walk-Ins</u> will be allowed.
- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





### **CLASS DESCRIPTION**

### 13. Fire Alarm Interconnectivity to the Fire Sprinkler System

Date: September 28, 2016

Time: 8 am to 5 pm

Duration: 8 Hours

#### **Course Synopsis:**

This is 8-hour course will cover the interconnectivity of a fire sprinkler system and the fire alarm systems. Fire Inspections are required to ensure that critical building systems will function if they are needed. There are methods that will be discussed that will address how to comply with the requirements and describe some of the misunderstandings of the codes that apply to the testing and Inspection of fire protection systems and how the code is laid out.

Audience:	Contractors, COC's, AHJ
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Required NFPA Standard: N/A

Class 13 will be held at: Shoreline Fire Department 17525 Aurora Ave North Shoreline, WA 98133





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 13
Employer / Agency:						Course 15
Mailing Address:						
City, State, Zip:						
Work Phone #:				<b>Contact Phon</b>	e #:	
I am attending as or	Sprinkler Industry		Local AHJ			Other
U U	Sprinkler		City/County Agency			Maintenance Staff
on behalf of:	Other	r 🛛 State/Federal Agency				Student
F	Place a checkm	ark next to t	the cou	urse you're reg	gisterir	ng for.
Course			Date			Location
13. Fire Alarm Interconnectivity to the Fire Sprinkler System		September 28, 2016 8 AM to 5 PM			reline Fire Department HQ 17525 Aurora Ave North Shoreline, WA 98133	

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to <u>firesprinkler@wsp.wa.gov</u> or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
    - You <u>MUST</u> register with the SFMO to attend.
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- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
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### **CLASS DESCRIPTION**

### 14. Fire Pump Testing and Analysis

Date: October 4<sup>th</sup> 2016

Time: 8 am to 12 pm

Duration: 4 Hours

#### **Course Synopsis:**

This 4-hour course focuses on stationary fire pumps and the requirements of the 2013 edition of NFPA 20. This lecture-based seminar discusses pump types, electric motor and diesel engine drivers along with their associated controllers. The installation requirements for fire pumps are also reviewed. Upon completion of this course, participants should be able to: explain the organization of NFPA 20 describe the various types of fire pumps, locate and apply the basic installation requirements for stationary fire pumps, drivers, and controllers. This seminar benefits anyone who specifies, installs, or inspects stationary fire pumps.

Audience:	Contractors, COC's, AHJ
Required NFPA Standard:	<u>2013 NFPA 20</u>
Class 14 will be held at:	South King County Fire Training Consortium 20811 84 <sup>th</sup> Ave South, Suite 102 Kent, WA 98032
Instructor:	Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 14
Employer / Agency:						Course 14
Mailing Address:						
City, State, Zip:						
Work Phone #:				Contact Pho	ne #:	
Sprinkler Ind		dustry		Local AHJ		Other
I am attending as or	🗌 Sprinkler		City/County Agency		gency	Maintenance Staff
on behalf of:	🗌 Other		State/Federal Agency			□ Student
I	Place a checkmar	k next to t	the co	ourse you're re	egisterin	ng for.
Course			Dat	te		Location
		ctober 4, 2016CoAM to 12 PM20		Consor 20811	King County Fire Training tium 84 <sup>th</sup> Ave South, Suite nt, WA 98032	

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to <u>firesprinkler@wsp.wa.gov</u> or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
    - You <u>MUST</u> register with the SFMO to attend.
    - <u>No Walk-Ins</u> will be allowed.
- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





### **CLASS DESCRIPTION**

# 15. Internal Piping Assessment and Obstruction Investigation

Date:	October 4	4 <sup>th</sup> 2016
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Time: 1 pm to 5 pm

Duration: 4 Hours

#### **Course Synopsis:**

This 4-hour course covers NFPA 25, Chapter 14 requirements how to conduct an internal piping assessment and obstruction investigation. Determining which system this applies to and if an alternative method to conduct the internal assessment is available. How to identify the types of internal piping issues that can cause an obstruction such as internal corrosion and what impacts it could have on the fire sprinkler system.

Audience:	Contractors,	COC's, AHJ

Required NFPA Standard: 2013 NFPA 20

Class 15 will be held at: South King County Fire Training Consortium 20811 84<sup>th</sup> Ave South, Suite 102 Kent, WA 98032





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 15
Employer / Agency:						Course 15
Mailing Address:						
City, State, Zip:						
Work Phone #:				Contact Ph	none #:	
I am attending as or	Sprinkler Industry			Local AHJ		Other
•	🗌 Sprinkler		City/County Agency		Agency	Maintenance Staff
on behalf of:	□ Other	Other State/Federal Agenc			I Agency	🗌 Student
F	Place a checkmar	k next to t	he co:	urse you're	registerin	ng for.
Course			Date	2		Location
Obstruction Investigation		october 4, 2016 1 PM to 5 PM		Consortiu	<sup>th</sup> Ave South, Suite 102	

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to <u>firesprinkler@wsp.wa.gov</u> or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
    - You <u>MUST</u> register with the SFMO to attend.
    - <u>No Walk-Ins</u> will be allowed.
- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





16.	NFPA 24 – Fire Service Mains and their Appurtenances (Underground)								
	Date: October 5 <sup>th</sup> 2016	Time: 8 am to 12 pm	Duration: 4 Hours						

#### **Course Synopsis:**

This 4-hour course uses the 2013 edition of NFPA 24 Standard for the Installation of Private Fire Service Mains and their Appurtenances which contains the latest requirements and information regarding the installation of underground water supply piping for fire protection systems. This course examines the requirements for the components used in these systems along with the installation requirements. Chapter 10 of NFPA 13 is an extract of the material found in NFPA 24 but does not include fire hydrants, hose houses, and other system devices.

Audience:	Contractors, COC's, AHJ
Required NFPA Standard:	This course covers material from the 2013 edition of NFPA 24 (not included).
Class 16 will be held at:	South King County Fire Training Consortium 20811 84 <sup>th</sup> Ave South, Suite 102 Kent, WA 98032
Instructor:	Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course
Employer / Agency:						16
Mailing Address:						
City, State, Zip:						
Work Phone #:				Contact	Phone #:	
I am attending as or	Sprinkler Industry			Local AHJ		Other
-	🗌 Sprinkler		City/County Agency		y Agency	Maintenance Staff
on behalf of:	🗌 Other		🗆 St	ate/Fede	ral Agency	🗌 Student
F	Place a checkmar	k next to	the co	urse you'	re registerir	ng for.
Course			Date			Location
16. NFPA 24– Fire Service Mains and their Appurtenances (Underground)		October 5, 2016 8 AM to 12 PM		Consortiun	Ave South, Suite 102	

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to <u>firesprinkler@wsp.wa.gov</u> or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
  - You <u>MUST</u> register with the SFMO to attend.
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- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
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- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





#### 17. NFPA 25 – Step by Step Testing Procedures

**Date:** October 5<sup>th</sup> 2016 **Time:** 1 pm to 5 pm

Duration: 4 Hours

#### **Course Synopsis:**

This 4-hour seminar discusses the challenges facing contractors where NFPA 25 is the adopted standard, but state and local AHJs request or mandate inspections and/or tests that are not aligned with the requirements of the standard.

Explain strategies used by others to minimize the liability and to mitigate the conflicts that result when dealing with these "out of scope" requests. How to follow NFPA 25 testing procedures to protect yourself and your company by increasing your skill in helping your AHJ properly apply NFPA 25.

The issue of contractor and owner liability is discussed in detail. The layout of the standard is reviewed and the scope of inspections, tests, and maintenance is reviewed for major systems including sprinklers, standpipes, and fire pumps.

Audience: Contractors, COC's, AHJ

Required NFPA Standard: N/A

Class 17 will be held at:	South King County Fire Training Consortium
	20811 84 <sup>th</sup> Ave South, Suite 102
	Kent, WA 98032





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received
Employer / Agency:						Course 17
Mailing Address:						
City, State, Zip:						
Work Phone #:				Contact Pho	ne #:	
I am attending as or	Sprinkler Ind	dustry		Local AHJ		Other
-	🗌 Sprinkler		City/County Agency		ency	Maintenance Staff
on behalf of:	□ Other			tate/Federal A	Agency	Student
-	Place a checkmar	k next to t	the co	urse you're re	egisterir	ng for.
Course			Dat	e		Location
			5, 2016 9 5 PM	Consor 20811	King County Fire Training tium 84 <sup>th</sup> Ave South, Suite 102 VA 98032	

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

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- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
    - You <u>MUST</u> register with the SFMO to attend.
    - <u>No Walk-Ins</u> will be allowed.
- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





# 18. NFPA 20 – Fire pumps for fire protection, layout and sizing Date: October 11 & 12, 2016 Time: 8 am to 5 pm Duration: 16 Hours

#### **Course Synopsis:**

This 16-hour course provides a detailed review of the design, installation, and acceptance testing of stationary fire pumps. The seminar begins with a review of basic pump principles including laminar and balanced flow along with basic hydraulic principles. The difference between centrifugal and positive displacement pumps will be examined.

Students will learn about the various types of centrifugal fire pumps and how each are best applied. The performance requirements, selection and sizing of pumps will be discussed with hands-on activities to give experience in choosing the most cost effective fire pump. Installation requirements will be thoroughly reviewed with illustrations of acceptable and unacceptable layouts. The purpose of pressure maintenance (jockey) pumps will be thoroughly examined including methods for choosing the correct capacity.

Selection, type and general discussion regarding pumps used in smaller commercial applications versus multiple story skyscrapers.

The requirement for motor drivers, engine drivers, and their controllers will be examined. Finally, the seminar examines the requirements for acceptance testing and the required documentation for an approved fire pump installation.

Audience:	Contractors, COC's, AHJ
Required NFPA Standard:	This course requires student to have a copy of the 2013 edition of NFPA 20 (not included).
Class 18 will be held at:	Woodinville Fire & Rescue Station 31 17718 Woodinville Snohomish Rd Woodinville, WA 98072
Instructor:	Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course
Employer / Agency:						18
Mailing Address:						
City, State, Zip:						
Work Phone #:				Contact P	hone #:	
Lam attending as or	Sprinkler Inc	dustry Local AHJ		IJ	Other	
I am attending as or		City/County Agency			Maintenance Staff	
on behalf of:	□ Other			tate/Feder	al Agency	Student
Place a checkmark next to the course you're registering for.						ng for.
Course	Date				Location	
18. NFPA 20 – Fire pur protection, layout	•				-	odinville Fire & Rescue Voodinville/Snohomish Rd NE Renton, WA 98072

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to firesprinkler@wsp.wa.gov or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
  - You <u>MUST</u> register with the SFMO to attend.
  - <u>No Walk-Ins</u> will be allowed.
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- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





#### **19.** Hydraulic Calculations for Fire Sprinkler Systems - Intermediate Date: November 8, 2016 Time: 8 am to 12 pm Duration: 4 Hours

#### **Course Synopsis:**

This 4-hour course introduces the participants to the basics of hydraulic calculations including sprinkler operating pressure, elevation pressure, and friction-loss. This course will examine the density/area approach to determine design criteria including water demand for sprinklers and hose allowance.

A review of the common system configurations is conducted examining the benefits of each. The requirements for performing hydraulic calculations as per NFPA 13 are discussed including the required forms, C-values, and equivalent lengths.

Audience: Contractors, COC's, AHJ

Required NFPA Standard: N/A

Class 19 will be held at:	Woodinville Fire & Rescue Station 31
	17718 Woodinville Snohomish Rd
	Woodinville, WA 98072





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 19
Employer / Agency:						Course 19
Mailing Address:						
City, State, Zip:						
Work Phone #:	Contact Phone #:					
Sprinkler Inc		dustry Local AHJ		Other		
U U	am attending as or		City/County Agency			Maintenance Staff
on behalf of:	Other State/Federal Agency				Student	
Place a checkmark next to the course you're registering for.						ng for.
Course	Date				Location	
19. Hydraulic Calculat Sprinkler Systems		NOVEINDELG				lle Fire & Rescue odinville/Snohomish Rd NE VA 98072

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to firesprinkler@wsp.wa.gov or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
  - You <u>MUST</u> register with the SFMO to attend.
  - <u>No Walk-Ins</u> will be allowed.
- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
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- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





### **20.** Hydraulic Calculations for Fire Sprinkler Systems - Advanced

Date: November 8, 2016 Time: 1 pm to 5 pm

Duration: 4 Hours

#### **Course Synopsis:**

This 4-hour course builds on Course One by reviewing hydraulic principles for calculating specific application sprinklers using minimum K-factors and pressure. The principles for determining the hydraulically most demanding area are reviewed along with changing the sprinkler area of coverage, density, and orifice size to find the most efficient system layout and configuration. The calculation concepts for using looped and gridded configurations are examined.

Audience:	Contractors, COC's, AHJ
Required NFPA Standard:	N/A
Class 20 will be held at:	Woodinville Fire & Rescue Station 31 17718 Woodinville Snohomish Rd Woodinville, WA 98072
Instructor:	Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 20
Employer / Agency:						Course 20
Mailing Address:						
City, State, Zip:						
Work Phone #:	Contact Phone #:					
I am attending as or	Sprinkler Industry		Local AHJ		AHJ	Other
Ū.					ty Agency	Maintenance Staff
on behalf of:	□ Other □ State/Fede			tate/Fed	eral Agency	🗌 Student
F	Place a checkr	nark next to t	the co	ourse you	're registerin	ng for.
Course	Date			Location		
20. Hydraulic Calculat Sprinkler Systems		November 9 201		.6		odinville Fire & Rescue oodinville/Snohomish Rd NE Renton, WA 98072

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to firesprinkler@wsp.wa.gov or faxing it to (360) 596-3934.
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- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
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  - You <u>MUST</u> register with the SFMO to attend.
  - <u>No Walk-Ins</u> will be allowed.
- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





# 21. Seismic Protection for Fire Sprinkler Systems – Intermediate

Date: November	9.	2016
Date	ς,	2010

Time: 8 am to 12 pm

**Duration:** 4 Hours

#### **Course Synopsis:**

This 4-hour course is on seismic protection for fire sprinkler systems is a fact of life for many locations. This course is designed for those who have an understanding of seismic terms with a focus on the proper application of the requirements for seismic protection. The content is based on the 2013 edition of NFPA 13.

Audience:	Contractors, COC's, AHJ
Required NFPA Standard:	<u>N/A</u>
Class 21 will be held at:	Woodinville Fire and Rescue 17718 Woodinville Snohomish Rd NE Woodinville, WA 98072
Instructor:	Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course
Employer / Agency:						21
Mailing Address:						
City, State, Zip:						
Work Phone #:	Contact Phone #:					
Spri		Sprinkler Industry Loc		Local AH	łl	Other
I am attending as or	🗌 Sprinkler		City/County Agency		Agency	Maintenance Staff
on behalf of:	Other		State/Federal Agency		al Agency	Student
F	Place a checkn	nark next to t	the co	ourse you'r	e registerir	ng for.
Course	Date				Location	
21. Seismic Protection fo Sprinkler Systems – I			o 12PM 17718		17718 V	odinville Fire & Rescue Voodinville Snohomish Rd NE Voodinville, WA 98072

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

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- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
  - You <u>MUST</u> register with the SFMO to attend.
  - <u>No Walk-Ins</u> will be allowed.
- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
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- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
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### **CLASS DESCRIPTION**

# 22. Seismic Protection for Fire Sprinkler Systems – Advanced

Date: November 9, 2016

Time: 1 pm to 5 pm

Duration: 4 Hours

#### **Course Synopsis:**

This 4-hour course is designed for those who have a solid understanding of seismic terms and application of flexibility, clearance, and bracing. Attendees of the session will learn to apply the concepts of lateral and horizontal loads, determine the zone of influence, and the calculation and layout of seismic bracing. The content is based on the 2013 edition of NFPA 13.

Audience:	Contractors, COC's, AHJ
Required NFPA Standard:	<u>N/A</u>
Class 22 will be held at:	Woodinville Fire & Rescue 17718 Woodinville Snohomish Road NE Woodinville, WA 98072
Instructor:	Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received
Employer / Agency:						Course 22
Mailing Address:						
City, State, Zip:						
Work Phone #:	Contact Phone #:					
Sprinkler Ir		Industry Local AHJ		AH]	Other	
I am attending as or	🗌 Sprinkler		City/County Agency		ty Agency	Maintenance Staff
on behalf of:	□ Other		State/Federal Agency		eral Agency	Student
F	Place a checkn	nark next to t	the cou	urse you	're registerir	ng for.
Course		Date		Location		
22. Seismic Protection Sprinkler Systems -		November 9, 201 1 PM to 5 PM		õ	17718 W	odinville Fire & Rescue oodinville Snohomish Rd NE oodinville, WA 98072

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

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- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to firesprinkler@wsp.wa.gov or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
  - You <u>MUST</u> register with the SFMO to attend.
  - <u>No Walk-Ins</u> will be allowed.
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### **CLASS DESCRIPTION**

#### 23. Fire Sprinkler System Requirements for Storage

Date: November 29, 2016

Time: 8 am to 5 pm

Duration: 8 Hours

#### **Course Synopsis:**

This 8-hour course covers fire sprinkler system requirements for storage as it is one of the most challenging fire protection scenarios. This course is based on the 2013 edition of NFPA 13 and reviews the key decision points to apply an approved design option for fire sprinkler use with storage applications.

Utilizing an interactive teaching method, this seminar follows the path that an engineer, designer, or AHJ uses when evaluating storage protection. The foundational questions of "What is being stored?", "How is it stored?", and "How high is it stored? are reviewed in detail. Once these questions are answered, the various design approaches are considered to determine the best solution for the particular scenario. The seminar ends with a hands-on activity using the information shared in the course.

Audience: Contractors, COC's, AHJ

Required NFPA Standard: N/A

Class 23 will be held at:	Glenwood Fire Station 7
	12603 NE 72 <sup>nd</sup> Ave
	Vancouver, WA 98662





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 23
Employer / Agency:						Course 25
Mailing Address:						
City, State, Zip:						
Work Phone #:	Contact Phone #:					
I am attending as or	Sprinkler Industry		Local AHJ			Other
Ū.	Sprinkler		City/County Agency		ency	Maintenance Staff
on behalf of:	Other		State/Federal Agency		Agency	Student
Place a checkmark next to the course you're registering for.						ng for.
Course	Date		Location			
23. Fire Sprinkler System Requirements for Storage		November 29, 2016 8 AM to 5 PM			Glenwood Fire Station 7 12603 NE 72 <sup>nd</sup> Ave Vancouver, WA 98662	

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

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- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to firesprinkler@wsp.wa.gov or faxing it to (360) 596-3934.
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- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
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- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
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### 24. NFPA 13 – 2016 Edition; Significant Changes

Date: November 30, 2016

**Time:** 8 am - 5 pm

Duration: 8 Hours

#### **Course Synopsis:**

This 8-hour course covers only NFPA 13 2016 Edition. This standard was recently released and contains a number of significant changes from the 2013 edition. Discuss the changes, why they were made and how to implement the change.

Audience:	Contractors, COC's, AHJ			
Required NFPA Standard:	This course covers material from the 2016 edition of NFPA 13 (not included).			
Class 24 will be held at:	Glenwood Fire Station 7 12603 NE 72 <sup>nd</sup> Ave Vancouver, WA 98662			
Instructor:	Fire Smarts, LLC			





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course
Employer / Agency:						24
Mailing Address:						
City, State, Zip:						
Work Phone #:	Contact Phone #:					
Lam attending as or	Sprinkler Industry			Local AHJ		Other
I am attending as or	🗌 Sprinkler		City/County Agency		ency	Maintenance Staff
on behalf of:	□ Other		State/Federal Agency		Agency	Student
Place a checkmark next to the course you're registering for.						
Course Date				Location		
24. NFPA 13 – 2016 Edition; Significant Changes		November 30, 2016 8 AM to 5 PM		Glenwood Fire Station 7 12603 NE 72 <sup>nd</sup> Ave Vancouver, WA 98662		

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

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  - You <u>MUST</u> register with the SFMO to attend.
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25.	Freeze protection requirement	nts and options (dry systems)	ieat tape, etc)		
	Date: December 6, 2016	<b>Time:</b> 8 am to 5 pm	Duration: 8 Hours		

#### **Course Synopsis:**

This 8-hour course will cover the NFPA standards requiring water-based fire protection systems to be protected against freezing. Examining the conditions that trigger mandatory freeze protection along with the approved options for meeting the requirement. The design limitations and economic impact (including maintenance) of using dry pipe systems, preaction systems, insulation, heat tracing, antifreeze solutions, and other potential protection methods will be examined.

Review items to be considered when making a choice on how best to provide adequate protection. Identify the consequences of inadequate freeze protection versus the building owners need for dependable and cost-effective fire protection.

Audience:	Contractors, COC's, AHJ

Required NFPA Standard: N/A

Lynnwood Fire Department			
18800 44 <sup>th</sup> Avenue West			
Lynnwood, WA 98046			





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 25
Employer / Agency:						Course 25
Mailing Address:						
City, State, Zip:						
Work Phone #:	Contact Phone #:					
I am attending as or	Sprinkler Industry		Local AHJ			Other
-	Sprinkler		City/County Agency		су	Maintenance Staff
on behalf of:	Other		State/Federal Agency		ency	🗌 Student
Place a checkmark next to the course you're registering						ng for.
Course	Date		Location			
25. Freeze protection requirements and options (dry systems, heat tape, etc)		December 6, 2016 8 AM to 5 PM		Ľ	ynnwood Fire Department 18800 44 <sup>th</sup> Ave West Lynnwood, WA 98046	

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

# USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to <u>firesprinkler@wsp.wa.gov</u> or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
    - You <u>MUST</u> register with the SFMO to attend.
    - <u>No Walk-Ins</u> will be allowed.
- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





## **CLASS DESCRIPTION**

## 26. Fire Alarm Interconnectivity to the Fire Sprinkler System

Date: December 7, 2016

Time: 8 am to 5 pm

Duration: 8 Hours

#### **Course Synopsis:**

This is 8-hour course will cover the interconnectivity of a fire sprinkler system and the fire alarm systems. Fire Inspections are required to ensure that critical building systems will function if they are needed. There are methods that will be discussed that will address how to comply with the requirements and describe some of the misunderstandings of the codes that apply to the testing and Inspection of fire protection systems and how the code is laid out.

Audience:	Contractors, COC's, AHJ
-----------	-------------------------

Required NFPA Standard: N/A

Class 26 will be held at: Lynnwood Fire Department 18800 44<sup>th</sup> Ave West Lynnwood, WA 98046

Instructor: Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 26
Employer / Agency:						Course 20
Mailing Address:						
City, State, Zip:						
Work Phone #:				<b>Contact Phone</b>	#:	
Sprinkler Inc		dustry Local AHJ			Other	
I am attending as or	<b>Sprinkler</b>		🗌 Ci	City/County Agency		Maintenance Staff
on behalf of:	Other State/Federal Agen			ency	Student	
Place a checkmark next to the course you're registering					ng for.	
Course		Date			Locati	
26. Fire Alarm Intero the Fire Sprinkle		Decemb 8 AM 1		,	Ľ	ynnwood Fire Department 18800 44 <sup>th</sup> Ave West Lynnwood, WA 98046

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

## USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to <u>firesprinkler@wsp.wa.gov</u> or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
    - You <u>MUST</u> register with the SFMO to attend.
    - <u>No Walk-Ins</u> will be allowed.
- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
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- 7. To obtain CEU credits or a Certificate of Attendance, you need to attend the entire training course.
- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





## **CLASS DESCRIPTION**

## 27. Fire Pump Testing and Analysis

Date: December 13, 2016

Time: 8 am to 12 pm

Duration: 4 Hours

#### **Course Synopsis:**

This 4-hour course focuses on stationary fire pumps and the requirements of the 2013 edition of NFPA 20. This lecture-based seminar discusses pump types, electric motor and diesel engine drivers along with their associated controllers. The installation requirements for fire pumps are also reviewed. Upon completion of this course, participants should be able to: explain the organization of NFPA 20 describe the various types of fire pumps, locate and apply the basic installation requirements for stationary fire pumps, drivers, and controllers. This seminar benefits anyone who specifies, installs, or inspects stationary fire pumps.

Audience:	Contractors, COC's, AHJ
Required NFPA Standard:	<u>2013 NFPA 20</u>
Class 27 will be held at:	Moses Lake Fire Department 701 East Third Ave Moses Lake, WA 98837
Instructor:	Fire Smarts, LLC





## **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 27
Employer / Agency:						Course 27
Mailing Address:						
City, State, Zip:						
Work Phone #:				<b>Contact Phon</b>	e #:	
I am attending as or	Sprinkler	Industry	Local AHJ			Other
•	🗌 Sprinkler	City/County Agency			Maintenance Staff	
on behalf of:	Other		State/Federal Agency		gency	□ Student
Place a checkmark next to the course you're registeri					ng for.	
Course		Date			Location	
27. Fire Pump Testing	g and Analysis	December 13, 8 AM to 12 F				oses Lake Fire Department 701 East Third Ave Moses Lake, WA 98837

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

## USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

- 1. Print clearly, completing all fields. One student and one course per registration form.
- 2. Return to the State Fire Marshal's Office (SFMO) no less than 15 calendar days prior to the course. This can be done by e-mailing the form to <u>firesprinkler@wsp.wa.gov</u> or faxing it to (360) 596-3934.
- 3. Training spots are given on a first come, first serve basis.
- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
  - Attendance is limited to the number of seats offered per course.
    - You <u>MUST</u> register with the SFMO to attend.
    - <u>No Walk-Ins</u> will be allowed.
- 5. If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible. The next person selected will come from a waiting list.
- 6. Courses with less than 10 students will be cancelled. This notice will be given no later than 5 days before the course. You will be notified via e-mail or phone.
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## **CLASS DESCRIPTION**

#### 28. Internal Piping Assessment and Obstruction Investigation

Date: December 13, 2016

Time: 1 pm to 5 pm

Duration: 4 Hours

#### **Course Synopsis:**

This 4-hour course covers NFPA 25, Chapter 14 requirements how to conduct an internal piping assessment and obstruction investigation. Determining which system this applies to and if an alternative method to conduct the internal assessment is available. How to identify the types of internal piping issues that can cause an obstruction such as internal corrosion and what impacts it could have on the fire sprinkler system.

Audience: Contractors, COC's, AHJ

Required NFPA Standard: N/A

Class 28 will be held at: Moses Lake Fire Department 701 East Third Ave Moses Lake, WA 98837

Instructor: Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 28
Employer / Agency:						Course 20
Mailing Address:						
City, State, Zip:						
Work Phone #:				<b>Contact Phon</b>	e #:	
Sprinkler I		ndustry Local AHJ			Other	
I am attending as or	🗌 Sprinkler		City/County Agency		ency	Maintenance Staff
on behalf of:	Other		State/Federal Agency		gency	Student
Place a checkmark next to the course you're registering for.					ng for.	
Course		Date			Location	
28. Internal Piping As Obstruction Inves		December 13 1 PM to 5				oses Lake Fire Department 701 East Third Ave Moses Lake, WA 98837

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

## USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

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- 4. An e-mail confirmation will be sent no later than 10 days prior to the training.
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29.	NFPA 24 – Fire Service Mains an	d their Appurtenances (Un	derground)
			<b></b>

Date: December 14, 2016	<b>Time:</b> 8 am to 12 pm	Duration: 4 Hours
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#### **Course Synopsis:**

This 4-hour course uses the 2013 edition of NFPA 24 Standard for the Installation of Private Fire Service Mains and their Appurtenances which contains the latest requirements and information regarding the installation of underground water supply piping for fire protection systems. This course examines the requirements for the components used in these systems along with the installation requirements. Chapter 10 of NFPA 13 is an extract of the material found in NFPA 24 but does not include fire hydrants, hose houses, and other system devices.

Audience:	Contractors, COC's, AHJ
Required NFPA Standard:	This course covers material from the 2013 edition of NFPA 24 (not included).
Class 29 will be held at:	Moses Lake Fire Department 701 East Third Ave Moses Lake, WA 98837
Instructor:	Fire Smarts, LLC





## **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 29
Employer / Agency:						Course 29
Mailing Address:						
City, State, Zip:						
Work Phone #:	Contact Phone #:					
Lam attending as or	Sprinkler	Industry Local AHJ			Other	
I am attending as or	Sprinkler		City/County Agency		ency	Maintenance Staff
on behalf of:	🗌 Other		State/Federal Agency		gency	🗌 Student
Place a checkmark next to the course you're registering f					ng for.	
Course	Date				Location	
29. NFPA 24– Fire Ser and their Appurte (Underground)		Decenic		nber 14, 2016 M M to 12 PM		oses Lake Fire Department 701 East Third Ave Moses Lake, WA 98837

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

## USE THIS REGISTRATION FORM ONLY FOR THE CLASSES SHOWN

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#### 30. NFPA 25 – Step by Step Testing Procedures

Date: December 14, 2016 Time:

Time: 1 pm to 5 pm

Duration: 4 Hours

#### **Course Synopsis:**

This 4-hour seminar discusses the challenges facing contractors where NFPA 25 is the adopted standard, but state and local AHJs request or mandate inspections and/or tests that are not aligned with the requirements of the standard.

Explain strategies used by others to minimize the liability and to mitigate the conflicts that result when dealing with these "out of scope" requests. How to follow NFPA 25 testing procedures to protect yourself and your company by increasing your skill in helping your AHJ properly apply NFPA 25.

The issue of contractor and owner liability is discussed in detail. The layout of the standard is reviewed and the scope of inspections, tests, and maintenance is reviewed for major systems including sprinklers, standpipes, and fire pumps.

Audience: Contractors, COC's, AHJ

Required NFPA Standard: N/A

Class 30 will be held at:	Moses Lake Fire Department
	701 East Third Ave
	Moses Lake, WA 98837

Instructor: Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 30
Employer / Agency:						Course 50
Mailing Address:						
City, State, Zip:						
Work Phone #:	Contact Phone #:					
I am attending as or	Sprinkle	r Industry Local AHJ			Other	
U U	🗌 Sprinkleı	r 🛛 🗌 City/County Agency			Maintenance Staff	
on behalf of:	Other	State/Federal Agency			□ Student	
Place a checkmark next to the course you're registerin					ng for.	
Course	Course Date				Location	
30. NFPA 25 – Step k Testing Procedu		December 14, 2016 1 PM to 5 PM				oses Lake Fire Department 701 East Third Ave Moses Lake, WA 98837

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

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### 6. NFPA 20 – Fire pumps for fire protection, layout and sizing Date: August 9 & 10, 2016 Time: 8 am to 5 pm Dur

Duration: 16 Hours

#### **Course Synopsis:**

This 16-hour course provides a detailed review of the design, installation, and acceptance testing of stationary fire pumps. The seminar begins with a review of basic pump principles including laminar and balanced flow along with basic hydraulic principles. The difference between centrifugal and positive displacement pumps will be examined.

Students will learn about the various types of centrifugal fire pumps and how each are best applied. The performance requirements, selection and sizing of pumps will be discussed with hands-on activities to give experience in choosing the most cost effective fire pump. Installation requirements will be thoroughly reviewed with illustrations of acceptable and unacceptable layouts. The purpose of pressure maintenance (jockey) pumps will be thoroughly examined including methods for choosing the correct capacity.

Selection, type and general discussion regarding pumps used in smaller commercial applications versus multiple story skyscrapers.

The requirement for motor drivers, engine drivers, and their controllers will be examined. Finally, the seminar examines the requirements for acceptance testing and the required documentation for an approved fire pump installation.

Audience:	Contractors, COC's, AHJ
Required NFPA Standard:	This course requires student to have a copy of the 2013 edition of NFPA 20 (not included).
Class 6 will be held at:	Commissioners Room at the Admin Office 2120 North Wilbur Road Spokane Valley, WA 99206
Instructor:	Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only	
Email Address:						Date Received Course 6	
Employer / Agency:						Course 6	
Mailing Address:							
City, State, Zip:							
Work Phone #:				Contact Pho	ne #:		
Lam attending as or	Sprinkler Industry		Local AHJ			Other	
I am attending as or	Sprinkler		City/County Agency		ency	Maintenance Staff	
on behalf of:	□ Other		State/Federal Agency		Agency	Student	
Place a checkmark next to the course you're registering for.							
Course	Date			Location			
<ol> <li>NFPA 20 – Fire pumps for fire protection, layout and sizing</li> </ol>		August 9 & 10, 2016 8 AM to 5 PM		Sp	Commissioners Room 2120 N. Wilbur Rd. ookane Valley, WA 99206		

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

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## 7. Preparing for the NICET Exam – NFPA 25 - Inspection, Testing & Maintenance of Water-Based Fire Protection Systems

Date: August 23 & 24, 2016

Time: 8 am to 5 pm

Duration: 16 Hours

#### **Course Synopsis:**

This 16-hour course is focused on preparing successful completion of the NICET examination requirements for NICET certification through Level II for the inspection and testing of waterbased suppression systems. This seminar is focused on the understanding and use of NFPA 25. NPFA 25 is the only document allowed to be referenced while taking the examinations. In addition, basic inspector procedures and safety requirements are reviewed.

Class will provide a timed practice exam of between 100 and 200 questions to give students a hands-on experience of using NFPA 25 under exam-like conditions.

Note: Students will provide their own copy of NFPA 25. Vendor to specify which edition of NFPA should be brought to the course.

Audience:	Contractors, COC's, AHJ
Required NFPA Standard:	This course requires student to have a copy of the 2013 edition of NFPA 25 (not included).
Class 7 will be held at:	West Pierce Fire & Rescue Station 21 5000 Steilacoom Blvd SW Lakewood, WA 98499
Instructor:	Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only	
Email Address:						Date Received Course 7	
Employer / Agency:						Course /	
Mailing Address:							
City, State, Zip:							
Work Phone #:				Contact Pho	ne #:		
I am attending as or	Sprinkler Industry		Local AHJ			Other	
•	Sprinkler		City/County Agency		gency	Maintenance Staff	
on behalf of:	□ Other		State/Federal Agency		Agency	🗌 Student	
Place a checkmark next to the course you're registering for.							
Course	Dat			Location			
7. Preparing for the NICET Exam – NFPA 25 Inspection, Testing & Maintenance of Water-Based Fire Protection Systems		August 23 & 24, 2016 8 AM to 5 PM			est Pierce Fire & Rescue 200 Steilacoom Blvd SW Lakewood, WA 98499		

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

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Fire Sprinkler Plan Review for Plan Reviewers (AHJ's)
 Date: September 13, 2016 Time: 8 am - 5 pm

Duration: 8 Hours

#### **Course Synopsis:**

This 8-hour course is geared toward the AHJ and takes attendees through a step-by-step review of fire sprinkler working drawings, the accompanying hydraulic calculations, and the requirements for acceptance testing of the system. The approval of fire sprinkler systems includes a review of the design documents and an onsite verification of the completed system. This course utilizes the requirements found in the 2013 editions of NFPA 13 and 13R. Attendees will work with an actual fire sprinkler working plan and the accompanying hydraulic calculations.

Audience:	COC's, AHJ
Required NFPA Standard:	This course covers material from the 2013 editions of NFPA 13 and NFPA 13R (not included).
Class 8 will be held at:	Kittitas Valley Fire & Rescue 2020 Vantage Hwy Ellensburg, WA 98926
Instructor:	Fire Smarts, LLC





## **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 8
Employer / Agency:						Course o
Mailing Address:						
City, State, Zip:						
Work Phone #:				Contact Pho	ne #:	
Lam attending as or	Sprinkler Industry		Local AHJ			Other
I am attending as or	Sprinkler		City/County Agency		ency	Maintenance Staff
on behalf of:	Other		State/Federal Agency		Agency	Student
Place a checkmark next to the course you're registering for.						
Course	Date			Location		
8. Fire Sprinkler Plan Review for Plan Reviewers (AHJ's)		September 13, 2016		Kittitas Valley Fire & Rescue 2020 Vantage Hwy Ellensburg, WA 98926		

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

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- 8. Check the course description to see if you need to bring an NFPA standard. They will not be provided at the training.





## 9. NFPA 13 – 2016 Edition; Significant Changes

Date: September 14, 2016

**Time:** 8 am - 5 pm

Duration: 8 Hours

#### **Course Synopsis:**

This 8-hour course covers only NFPA 13 2016 Edition. This standard was recently released and contains a number of significant changes from the 2013 edition. Discuss the changes, why they were made and how to implement the change.

Audience:	Contractors, COC's, AHJ
Required NFPA Standard:	This course covers material from the 2016 edition of NFPA 13 (not included).
Class 9 will be held at:	Kittitas Valley Fire & Rescue 2020 Vantage Hwy Ellensburg, WA 98926
Instructor:	Fire Smarts, LLC





### **2016 FIRE SPRINKLER REGISTRATION FORM**

Name of Attendee:						SFMO Use Only
Email Address:						Date Received Course 9
Employer / Agency:						Course 9
Mailing Address:						
City, State, Zip:						
Work Phone #:				Contact Pho	ne #:	
I am attending as or	Sprinkler Industry		Local AHJ			Other
U U	🗌 Sprinkler		City/County Agency		ency	Maintenance Staff
on behalf of:	□ Other		State/Federal Agency		Agency	🗌 Student
Place a checkmark next to the course you're registering for.						
Course	Date			Location		
9. NFPA 13 – 2016 Edition; Significant Changes		September 14, 2016			titas Valley Fire & Rescue 2020 Vantage Hwy Ellensburg, WA 98926	

# There is no cost to attend this training. All training offered is eligible for ICC CEU's.

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