



FIRE PROTECTION BUREAU
Licensing and Certification Programs
PO Box 42642, Olympia WA 98504-2642
(360)596-3946 Fax(360)569-3934
Email: firesprinkler@wsp.wa.gov



Hydraulic Calculations for Sprinkler Systems 1 Day/8 Hours

Course Synopsis:

This course introduces the participants to 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. Further, participants will review hydraulic principles for calculating specific application sprinklers using minimum K-factors and pressure, the principles for determining the hydraulically most demanding area, and 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: Certificate of Competency Holders, AHJ

Instructor: Fire Smarts, LLC

Recommended NFPA Standard: 2013 NFPA 20 (copies will not be provided)

Class Date/Time	Location
March 24, 2020 8:00 a.m. – 5:00 p.m.	Everett Fire Station #4 5920 Glenwood Ave Everett, WA 98203
December 1, 2020 8:00 a.m. – 5:00 p.m.	Kittitas Valley Fire & Rescue 400 East Mountain View Ave Ellensburg, WA 98926

CEU credits: All classes are eligible for CEU credits. To receive credits and/or a Certificate of Attendance, you must attend the entire training.

Registrations: Training spots are given on a first come, first serve basis. Attendance is limited to 30 students per class. You must register with our office prior to attending; no walk-ins allowed. Email registration form to firesprinkler@wsp.wa.gov or fax to (360) 596-3934; forms must be submitted at least 15 calendar days prior to the course. A confirmation email will be sent within 5 business days confirming attendance.

Cancellations: If you are unable to attend the training after completing registration, please notify the SFMO as soon as possible.

For more information or any questions, please email firesprinkler@wsp.wa.gov or call (360) 596-3946.



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Date Received

Course Registration

Name of Attendee:			
Email Address:			
Employer/ Agency:			
Mailing Address:			
City, State, Zip:			
Contact Phone #:			
I am attending as or on behalf of:	Sprinkler Industry	Local AHJ	Other
	<input type="checkbox"/> Sprinkler	<input type="checkbox"/> City/County Agency	<input type="checkbox"/> Maintenance Staff
	<input type="checkbox"/> Other	<input type="checkbox"/> State/Federal Agency	<input type="checkbox"/> Student
Course		Date/Time	Location
#11	Hydraulic Calculations for Sprinkler Systems	March 24, 2020 8:00 a.m. – 5:00 p.m.	Everett Fire Station #4 5920 Glenwood Ave Everett, WA 98203
#26	Hydraulic Calculations for Sprinkler Systems	December 1, 2020 8:00 a.m. – 5:00 p.m.	Kittitas Valley Fire & Rescue 400 East Mountain View Ave Ellensburg, WA 98926

How to Register:

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.
3. Email form to firesprinkler@wsp.wa.gov or fax to (360) 596-3934.