

**8 Hours of Plumbing Specialist Continuing Education for VT PS-1 & PS-2 License Holders**  
**April 18, 2019 – 8:00 am – 4:00 pm - AGC Building - 1 Graves Street - Montpelier, VT**  
**4 NORA CEUs and 2 VT Oilheat CEUS VTF-15**

This Vermont Fuel Education Center (VFEC) course is for Vermont Type S Plumbing License holders needing their 8 hours of Vermont-approved continuing education credits. This course is continuing education for Type S Hydronics license holders ONLY! Not approved for the Water Treatment License.

**TOPICS:**

**Service Calls:** Use of test equipment and service manuals to diagnose and repair faulty equipment

**Vermont State Plumbing Code:** How it pertains to oil-heat service for (1) connecting domestic water to heating equipment, backflow prevention and why (2) Connecting domestic hot water to the building through various conduits

**The Permitting Process:** Why it's necessary to file a permit, whose responsibility is the permit, the benefits of filing a permit and knowing the limitations of your Type S Hydronics license

**Equipment Cutaways** will be available for the instructor to explain and for students to examine

**TRAINING BOILER (what it can do, what it can simulate):**

**Fuel Pumps:** High vacuum, cavitation of pumps, suction leaks, low operating pressure, poor atomization of fuel, effects of cold oil, poor fuel cutoff

**Draft:** High draft, low draft, uncontrolled draft, noise & smells from draft problems, importance of draft regulators, high stack temps

**Nozzles:** Poor atomization, soot, odors, cold oil, suction leaks, sizing

**Combustion Zone:** Chambers, chamberless firing, air leaks, low CO-2, vaporization, efficient combustion

**Stack Temps:** High Stack readings, low stack readings, condensation in flue gases, effects of condensation

**Ignition:** Poor starts, plugged nozzles, smooth starts, pre-ignition, intermittent and interrupted ignition, carbon bridging of electrodes

**INSTRUCTOR: Steve Goodrich. 30 years of experience;**

Installation, service and repair of heating equipment  
 Managing of Service Departments and Training of Personnel  
 Customer Communications, explaining service, updating or replacing heating equipment  
 Founder of Quality Plumbing & Heating and Kelly Fuels, both of Bennington, Vermont  
 Vermont licensed Master Plumber  
 Vermont Licensed Type S Journeyman electrician

Vermont licensed oil heat technicians  
 Massachusetts licensed journeyman plumber, oil burner technician  
 PMAA Certified oil heat technician  
 Past President of Vermont PHCC  
 Past Instructor to Vermont Apprenticeship Program  
 In addition to the day to day management of his companies, still very active in the service departments; taking calls, serving equipment, and continuing education.

**Cancellation:** VFDA reserves the right to cancel any and all seminars for lack of registrations, and pre-registered students will be notified using the contact information provided on the completed registration form. Firms that prepaid for cancelled seminars will receive a full refund.

**Certificates** suitable for framing will be given to all students completing all requirements of this seminar.

**Documentation Requirements:** Your Plumbing license number should be provided on the registration form. A copy of your Plumbing license should be provided if requested.

**REQUIRED BOOKS:** 2015 International Plumbing Code

**Exam:** The exam at the end of the day is closed book and will consist of 50 questions.

**Hand-outs:** 2015 VT Fire Safety Code and 2015 Plumbing Rules

**Late Arrival/Early Departure:** Certificate will only be issued to students completing all aspects of the class.

**Lunch** is on your own, students will have 30 minutes for lunch.

**Maximum Students** for this seminar: 20

**No Shows:** Firms registering students and failing to attend without notice to VFDA on or before the registration deadline date will be billed and liable for the full amount of tuition.

**Pencil:** All students testing should bring a number 2 pencil to class.

**Registrations** are processed on a first-come, first-served basis.

**Schedule:** 8:00 a.m. early arrival & coffee/donuts (if available at the facility) // 8:30 a.m. training begins // 12:00 p.m. Lunch Break // 4:00 p.m. seminar ends.


**Walk-in or Late Registration:** VFDA does not, in any way, represent that it can accommodate walk-in students.

**Payment:** Checks are made payable to "VFDA" and must accompany registration form(s) if you are not a member of VFDA.

**Questions?:** Contact VFDA at 802-223-7750 or at [steph@vermontfuel.com](mailto:steph@vermontfuel.com).

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*This class is for Water Heating and Heating System Specialist ONLY - NOT for Water Treatment Licenses or PJ/PM*

Type S Plumbing Renewal Course Class held on April 18, 2019 Name	License # (PS-XXX)	 \$225 per student
1		\$
2		\$
3		\$
4		\$
Not a VFDA member? Call 802-223-7750 or go to <a href="http://www.vermontfuel.com">www.vermontfuel.com</a>	<b>Please remember to write                      down license number above                      or your certificate cannot be                      issued!</b>	\$ _____ <b>TOTAL</b>

**REQUIRED BOOKS:** IPC 2015 INTERNATIONAL PLUMBING CODE BOOK – at [www.iccsafe.org](http://www.iccsafe.org) or call 1-800-786-4452 – If the VFDA instructor has additional available copies of the 2015 Plumbing Code Book, you may purchase one for \$65.00 per book (includes shipping and handling).

We have read, understand and agree to the policies and details as outlined in this notice. We will ensure that students arrive at class with the necessary materials.

Company \_\_\_\_\_ Contact \_\_\_\_\_

Address \_\_\_\_\_

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

Phone \_\_\_\_\_ Fax \_\_\_\_\_ Email \_\_\_\_\_

<b>P A Y M E N T</b>	<input type="checkbox"/> Check Enclosed	Name _____
	<input type="checkbox"/> Payment to Follow	Card # _____
	<input type="checkbox"/> Bill Us ( <i>members only</i> )	Exp. Date _____ CVV _____ Billing Zip _____
	<input type="checkbox"/> Credit Card	

**FAX TO VFDA: 802-419-3313**

or mail to VFDA - PO Box 1370 - Montpelier, VT 05601