

8 Hours of Plumbing Specialist Continuing Education for Vermont PS-1 & PS-2 License Holders
VTF-15 4 NORA CEU'S & 2 Vermont Oilheat CEU'S Instructor - Steve Goodrich
April 15, 2010 - Vermont Fuel Education Center - 250 Main Street - Montpelier, VT
8:00 am - 4:30 pm

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. This course is also approved for 4 NORA Oilheat CEU'S and 2 Vermont Oilheat CEU'S.

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 contained in the completed registration form. Firms 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.
- Exam** – the exam at the end of the day is closed book and will consist of 50 questions.
- Hand-outs:** Some Materials will be provided. The notice will tell you what books are required to bring to class.
- Late Arrival/Early Departure** –Certificate will only be issued to students completing all aspects of the class.
- Lunch is provided courtesy of the Vermont Fuel Education Center**
- Maximum Students** for this seminar: 25
- No Shows:** Firms registering students and failing to attend without notice to VFDA on or before the registration deadline date will be billed for and liable for the full amount of tuition.
- Payment:** Checks may be made payable to “VFDA” and must accompany registration form(s) if you are not a member of VFDA. VFDA also accepts MasterCard and VISA.
- Pencil:** All students testing should bring a number 2 pencil to class.
- Registrations** are processed on a first come, first serve 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 - // 4:30 p.m. seminar ends.
- Sign In:** Students attending must sign in with the instructor in order to receive a certificate. We ask that you please print clearly, as illegible written names will delay issuance of certificates.
- Walk-in or Late Registration:** VFDA does not, in any way, represent that it can accommodate walk-in students
- Questions?** : Contact VFDA at 802.223.7750 or at training@vermontfuel.com

REQUIRED BOOKS: IPC 2003 INTERNATIONAL PLUMBING CODE BOOK - See order form - #3200S03 at www.iccsafe.org - \$45.50 ICC members or \$57.00 for non ICC members
 Hand-outs at the class will be the 2005 Fire & Building Safety Code and the Vermont Plumbing Rules



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This class is for Water Heating and Heating System Specialist ONLY - Not for Water Treatment Licenses or PJP/PM

Students must register by April 8, 2010. Student Name	License Number	This class is offered at a discounted rate thanks to a NORA grant!
1		\$ \$130 -Members \$200 Non-Members
2		\$ \$130 -Members \$200 Non-Members
3		\$ \$130 -Members \$200 Non-Members
4		\$ \$130 -Members \$200 Non-Members
Not a VFDA member? Call 802.223-7750 or go to www.vermontfuel.com	Please remember to write down license number above or your certificate cannot be issued!	\$ _____ TOTAL

Type S Plumbing Continuing Education - 4 NORA CEU's - April 15, 2010

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 _____

Check Enclosed

Payment by Credit Card:

Payment to Follow

Name _____

Bill Us (*members only*)

Card # _____ Exp. Date _____

Credit Card

VFDA accepts Visa & Mastercard (No Amex)

FAX TO VFDA: 802-223-7751

or mail to VFDA, 250 Main Street, Suite 301, Montpelier, VT 05602