

VFDA Vermont Electrical Class "S" A-1 Automatic Gas or Oil Heating
Electrical License CEU Course - VTF-12 8 hrs NORA and 8 hrs VT Electrical (A-1) Renewal

There are NO Vermont Oilheat or Propane Continuing Education credits approved for this course

April 22, 2010 - Vermont Fuel Education Center - 250 Main Street - Montpelier, VT
8:00 am - 4:30 pm

The Vermont Fuel Education Center (VFEC) has submitted and gained approval for this 8 hour Type S A1 Electrical Continuing Education Course for the Automatic Gas/Oil license RENEWAL. This course is only for renewal of the Class "S" A1 automatic gas or oil heating Electrical License, and **does NOT provide CEUs for anything other than the A1 License**. NORA has also awarded 8 hrs of Oilheat continuing Ed for this course.

PRE-REQUISITES: For A1 renewals, candidates for this VFDA course **must have a valid A1 Electrical license from the State of Vermont.**

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.

- Code Books:** No Code Books Required
- What to Bring with you:** You should bring a pen, and a #2 pencil, and a METER (SEE "METERS").
- Cancellation by VFDA:** VFDA reserves the right to cancel seminars for lack of registrations, weather, etc. Pre-registered students will be notified of course cancellation if cancellation is necessary. Firms prepaid for cancelled seminars will receive a full refund or have their payment applied toward the next offering of this course, whichever they prefer.
- Cancellation by Student:** Cancellation by student must be made in writing (fax, email) to VFDA on or before the registration deadline. There are no refunds for cancellations received after the registration deadline.
- Certificates of Completion:** suitable for framing will be sent to students after the seminar.
- Classroom format:** This course is held in a classroom seating format; Tables and chairs.
- Continuing Education Units:** This course has been approved for 8 hours of NORA Continuing Education Units. It is also approved for 8 hours for A1 License renewal originally granted by the Vermont Electrical Licensing Board in 2004 and re-approved 2006. **There are NO Vermont Division of Fire Safety OILHEAT or PROPANE Continuing Education Units approved for this course.**
- Coffee:** On site coffee may be available to students in the morning (Varies with location).
- Deadline:** Please register on or before the registration deadline. Late registrations will be assessed express shipment and handling charges to cover additional costs incurred by VFDA for rush shipments of Books.
- Documentation:** If documentation is not submitted with registration or on/before the class date, you may be subject to additional administration fees of \$50 per registrant.
- Hand-outs:** VFDA will distribute its own hand-out materials to students participating in the course
- Instructor:** Steve Goodrich, Vermont Fuel Dealers Association member, fuel dealer and instructor to the association for oilheat CEU and Plumbing Specialist Hydronics courses.
- Lunch:** Students are on their own for lunch (Available locally.)
- Mastercard and VISA:** Both cards are accepted as payment by VFDA.
- METERS:** Students are required to have a Volt-Ohm-Amp meter, or a Multi-meter, for class.
- Minimum/Maximum:** Minimum class size will be 12 students; Maximum class is 30 students.
- No Shows:** Firms pre-registering students and failing to attend or canceling after registration deadline will be billed for and liable for the full amount of tuition. We strongly urge substitutions when registered students find they will not attend once the registration deadline has passed.
- Pre-Register:** Please pre-register for these sessions.
- Questions?:** Contact VFDA at 802.223.7750
- Requirements:** This course is for A1 Electrical License holders.
- Re-Test:** There is no option for re-testing of the VFDA Exam.
- Schedule:** 8:00 a.m. to 4:30 p.m. on the dates noted. Periodic breaks will be taken.
- Tests:** 25 questions for National Oilheat Research Alliance Continuing Education Units only. No test for A1 CEUs.
- Tuition: \$130 for VFDA members - \$200 non member**
- Walk-in or Late Registrations are discouraged.** When classes are at capacity, VFDA cannot guarantee seating, or applicable publications, for walk-in or late registrants. Walk-in students will be turned away if there is not enough seating to accommodate both pre-registered and walk-in students.



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COURSE DESCRIPTION:

Instruction on all applicable codes that relate to installation of gas and oil equipment with attention to wiring of the electrical system, including review of:

- Vermont State Electrical Rules
- Discussion on Vermont State Electrical Rules
- How these rules pertain to the A1 License holder
- Parameters for A1 Electricians
- When you need to call in a Master Electrician

- Vermont State Electrical Code
- Discussion on electrical code as it pertains to A1 installations
- Filing of Electrical Work Notices
- Discussion with Vermont State Electrical Inspector
- Use of Electrical Meters (will be used for test)
- Use of multimeter in Diagnostic – Ohms, Volts and Amps
- Use of Electrical Test Boards (will be used for test)
- Steam Boiler

- Hot Water Boiler (old style separate controls)
- Zoned heating system with 4 zones
- Burner controls and components
- Troubleshooting Components
- Motors
- Relays
- Controls
- Transformers
- Capacitors

For A1 Electrical License Renewals, certificates of completion from VFDA will not be issued to student until the required A1 License Number is provided. Students must bring a Volt-Ohm-Amp meter or a Multi-meter to class.

Students must register by April 15, 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
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

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