

Vermont Electrical Class "S" A-1 Automatic Gas or Oil Heating Renewal Course

VTF-12 8 hrs NORA and 8 hrs VT Electrical (A-1) Renewal

August 5, 2015 - 8:00 AM - 4:30 PM

F.W. Webb - 3091 Cold River Road - Rutland, VT

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

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.**

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, #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 cancellation using the contact information provided on the completed registration form. Firms that 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. There are NO Vermont Division of Fire Safety OILHEAT or PROPANE Continuing Education Units approved for this course.

✓ **Hand-outs:** VFDA will distribute its own hand-out materials to students participating in the course.

✓ **Lunch:** is on your own, available locally.

✓ **METERS:** Students are required to have a Volt-Ohm-Amp meter, or a Multi-meter for this class.

✓ **Minimum/Maximum:** Minimum class size will be 12 students; maximum class is 25 students.

✓ **No Shows:** Firms pre-registering students and failing to attend or canceling after registration deadline will be billed 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.

✓ **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:** \$225 per student

✓ **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.

✓ **Questions?:** Contact VFDA at 802-230-4722 or email steph@vermontfuel.com

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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.

| Type S Electrical Renewal Course Class held on August 5, 2015 Name | License # (ES-XXXX) |  \$225 per student |
|--|---|--|
| 1 | | \$ |
| 2 | | \$ |
| 3 | | \$ |
| 4 | | \$ |
| For A1 renewals, candidates for this VFDA course must have a valid A1 Electrical license from the State of Vermont. | 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 _____

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

FAX TO VFDA: 802-419-3313

or mail to VFDA, 963 Paine Turnpike North, Berlin, VT 05602