

ENERGY CONSERVATION TECHNICIAN BASIC TRAINING

OVERVIEW:

This (14) week, part-time intensive program is an enhanced version of the *formerly titled* 200 Hour Oilheat Technician Basic Training course. **Enhancements include additional concentration on the newest in high efficiency technology and equipment in addition to the latest energy conservation practices being implemented by professionals in the field.** This course is comprised of 100 hours of hands-on training in our state-of-the-art lab and computer simulated operations and 100 hours of classroom lecture and discussion. The goal of this course is to train the 21st Century Home Energy Professionals that are now in demand within the industry. Upon satisfactory completion of the course, the registrant will receive a **Certificate of Completion** from MEMA. This course, along with (6) months of on-the-job training, will qualify the registrant for the State of Maine Journeyman Oil Burner Technician's License. For more information on licensing, fees, and testing requirements, please visit:

http://www.maine.gov/pfr/professionallicensing/professions/fuel/license_types.htm

COURSE TOPICS & CONTENTS:

The textbooks for this course are the National Oilheat Research Alliance "Oilheat Technicians Manual", {Copyright 2008} NFPA 31, NFPA 211, and the Maine State Code Book. These texts provide an up-to-date introduction to oil heat technology and service. Course books need to be purchased at the SMCC bookstore prior to the first night of class. The course is comprised of the following sections:

Principles, Theories & Basic Electricity – Fuel Oil Properties, Bio Fuel, Low Sulfur Diesel, Other Fuel Sources, Oil Burners, Basic Electricity

Components & Controls – Ignition Systems, Motors, Fans & Couplings, Primary Controls, Limit Controls & Thermostats, Outdoor Reset Theory & Terminology

Fuel Systems & Venting – Tanks, Piping, Fuel Units & Oil Valves, Fuel Pumps and Oil Valves, Nozzles & Combustion Chambers, Draft & Venting, Pellet Vents, Combustion Air Zone, Combustion, Solid Fuel, Bio Mass

Heating Systems, Conservation, Customer Relations & Codes – Heating Systems, Heat Loss, Renewal Energy Types, Preventative Maintenance, Service Procedures, Energy Conservation, Home Energy Concepts, Pressure & Thermal Boundaries, Insulation Factors, Customer Service

TRADE SPECIFIC TOOLS ARE REQUIRED FOR THIS COURSE AND ARE NOT PROVIDED BY MEMA

Each Registrant Will Need:

- Tool Box or Bag
- 2" Three Ring Binder
- Long Nose Pliers
- Flaring Kit
- Set of Metric Allen Wrenches
- Pipe Wrench
- Metal Cutting Pliers (Sheet Metal Snips)
- Tubing Cutter: 1/8" to 1 1/8"
- Clamp on Amp/Volt/Ohm Meter
- 6 in 1 Screwdriver
- 8" and 10" Adjustable Wrench
- Set of Combination Wrenches 1/4" to 3/4"
- Safety Glasses
- Flashlight
- Set of Allen Wrenches (SAE 6 x 1/8", 9/64", 3/16", 7/32", 1/4", 5/16")
- Torpedo Level
- Wire Stripper
- 25' or 30' tape rule
- Insulated Linesman's Pliers
- Set of Nut Drivers
- 3/16" to 1/2" Straight Blade Screwdriver 6", 9"
- 1 Mitco Pump Testing Manifold P-115-10
- Colored Pencils, Highlighter

2010 tuition rates for this course have been generously subsidized through a grant awarded by the National Oilheat Research Alliance. Although tuition rates have increased, the necessary increase was lowered significantly with NORA's support.

REGISTRATION FORM

SOUTHERN MAINE COMMUNITY COLLEGE

ENERGY CONSERVATION TECHNICIAN BASIC TRAINING (NIGHT)

200 Hour Course

November 2, 2010 – February 19, 2011

Tuesday's & Thursday's: 5:00pm – 9:00pm - Selected Saturdays: 8:00am – 2:00pm

MAINE ENERGY MARKETERS ASSOCIATION

25 Greenwood Road – Brunswick, ME 04011

Tele: (207) 729-5298 Fax: (207) 721-9227

www.MaineEnergyMarketers.com

SMCC

2 Fort Road, South Portland Maine

Course Location: HAC 105

TUITION (DOES NOT INCLUDE COURSE BOOKS)

\$1,975.00 Per Student (Member) - \$2,275.00 Per Student (Non-Member)

Total Amount Includes a \$50 Non-Refundable Registration Fee (Required To Register)

Registration/Refund Policy

*This course, hosted by SMCC has a maximum and a minimum number of students it will serve per class. If the minimum is not achieved, all funds paid will be refunded. If the maximum number is achieved, no further registrants will be accepted. All registrations are on a first-come first-serve basis. **Course books must be purchased from the college campus bookstore.**

***Payment, in full, must be received by MEMA (5) business days prior to the first day of class for the registrant to be admitted to the class.**

*All funds paid, except the \$50 Registration Fee, can be refunded if such is requested no later than (5) business days PRIOR to the first day of the course. Requests for refunds made within (5) business days of the first day of the course **WILL NOT BE HONORED.**

*Transfers requested prior to (5) business days of the first day of a course will be permitted with no penalty. If a transfer is requested within (5) business days of the first day of class, a **\$100 transfer fee** will be charged.

TO REGISTER: COMPLETE SECTIONS A, B, AND C & REMIT WITH PAYMENT

A

(If you are not being sponsored by your company, provide your personal information)

Sponsoring Company *(if applicable)* _____

Company Contact Name *(if applicable)* _____

Mailing Address _____

City _____ State _____ Zip _____

Telephone _____ Email _____

Who can we contact in case of an emergency?

Name _____ Telephone # _____

PLEASE WRITE NAME CLEARLY AS IT SHOULD APPEAR ON CERTIFICATE OF COMPLETION

B

Student Name _____

Home Phone _____ Cell Phone _____

Email _____

Home Address _____ City _____

State _____ Zip _____

PAYMENT INFORMATION

C

Enclosed Please Find: ___ Check ___ Money Order ___ Credit Card (Visa, MasterCard)

Visa/MasterCard # _____ - _____ - _____ - _____ Expiration Date ___/___/___

Signature Required:

I have read and acknowledge the Registration/Refund Policy as stated:

Signed by: _____ Date: _____

Please Remit Payment to: **MEMA P.O. Box 249, Brunswick, Maine 04011-0249**

