

## **ENERGY CONSERVATION TECHNICIAN BASIC TRAINING**

### **OVERVIEW:**

This six week, full-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 21<sup>st</sup> 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/oil\\_solid\\_fuel/index.htm](http://www.maine.gov/pfr/professionallicensing/professions/oil_solid_fuel/index.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. The books will be provided on the first day of class. The course is comprised of the following sections:

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

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

**Controls & Heating Systems** – 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

**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

MEMA TECHNICAL EDUCATION CENTER

## ENERGY CONSERVATION TECHNICIAN BASIC TRAINING (DAY)

200 Hour Course

November 15<sup>th</sup> - December 23<sup>rd</sup>, 2010

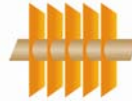
Monday thru Friday: 8:00am – 3:00pm

### MAINE ENERGY MARKETERS ASSOCIATION

25 Greenwood Road – Brunswick, ME 04011

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

[www.MaineEnergyMarketers.com](http://www.MaineEnergyMarketers.com)



MEMA TECHNICAL  
EDUCATION CENTER

### TUITION (Includes all Course Materials)

**\$2,125.00 Per Student (Member) - \$2,425.00 Per Student (Non-Member)**

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

### Registration/Refund Policy

\*MEMA Technical Education Center 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.

\*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**