



SBE TRAINING CENTER ENERGY PROGRAM
HOME PERFORMANCE LEVELS 1, 2 & 3 WITH ENERGY STAR

This 9-day intensive home performance training *series*, composed of Levels 1, 2, and 3, teaches whole-house energy efficiency and building performance testing, evaluation, and contracting with homeowners for upgrading existing homes to improve comfort, safety, health, durability and energy efficiency. This program was developed to meet the increasing demand among homeowners for comprehensive energy efficiency solutions and better quality, energy-focused remodeling, a market that is expected to grow for many years to come.

This training series is designed for remodelers, HVAC contractors, solar contractors, insulation contractors, or anybody with a serious interest in developing a business in whole-house energy efficiency retrofitting or remodeling. Those who complete the series will be eligible to test for Building Performance Institute (BPI) certification. Level 1 is required by the City of Redding for all contractors who wish to participate in their Home Performance program.

RSVP FOR SERIES REGISTRATION—SEE BELOW

Date: March 9th, 2010 (Actual class dates below)
 Standard Cost Per Level: \$675 (***Pd for by SMART***)
 Time: 3:30 PM—5PM
 Location: SBE Training Center

The CBPCA Home Performance Levels 1, 2 and 3 course fees will be paid for by the SMART Center through grant funding that they have received. There will be SMART Center staff on hand for series registration on March 9th, 2010 at the SBE Training Center.

LEVEL ONE: Class Dates: March 23, 24, 25, 2010

Day 1: Classroom

- Introduction to Home Performance
- Home Performance Case Studies
- Pre-Home Analysis Tasks
- Utility Bill Dis-aggregation
- Occupant Interview
- Home Site Inspection
- Environmental Considerations
- Water Management
- Technical Math

Day 2: Classroom

- Envelope Tightness
- Air Infiltration Driving Forces
- Blower Door Tests
- Building Pressure Diagnostics
- Building Ventilation
- Ventilation Strategy
- IAQ
- Water Vapor Transmission and Control
- Building Insulation
- Insulation Performance
- Air Barriers
- Measuring Thermal Performance of Assemblies
- Insulation and Air Barrier Alignment

Day 3: Classroom

- Calculating Heat Loss
- Attic Ventilation
- Crawlspace Ventilation
- Infrared Thermography
- Door Thermal Performance
- Window Thermal Performance
- Heating Systems
- Calculating Delivered Costs for Various Energy Sources
- CBPCA Temperature Stratification Test
- Delivering Comfort
- Air Conditioner Performance Factors
- Duct Leakage Testing and Sealing
- Ducts: Repair or Replace

LEVEL TWO: Class Dates: March 30, 31, April 1, 2010

• Days 4 & 5: Field Days

- Lighting Efficiency
- Appliance Efficiency
- Water Heater Improvements
- Worst-Case Combustion Tests: BPI Approach
- Perform complete field testing of actual home
- Perform more in-depth testing of the field house based on the results of the previous days testing.

• Day 6: Classroom

- Analyze Data from the Field House:
- Analyze Utility Bill Data
- Consider/List all Appropriate Improvements
- Evaluate Each Potential Improvement
- Select Best Improvements for Customers Needs
- Develop Report; Test Findings, Proposed Scope-of-Work, Estimate Costs
- Discuss Customer Presentation & Sales Technique

LEVEL THREE: Class Dates: April 13, 14, 15, 2010

Day 7: Classroom

- Shell Measure Day & BPI Shell Test Material Review:
- Outline the shell measures recommended for the field house in much more detail.
- Discuss in detail the installation procedures for these and other typical shell measures.
- Discuss BPI Shell Specialist Material

Day 8: Classroom

- HVAC Measures & BPI Heating Test Material Review:
- Outline the HVAC measures recommended for the field house in much more detail.
- Discuss in detail the installation details for these and other typical measures.
- Discuss the BPI Heating Specialist Material

Day 9: Classroom

Certified Building Analyst Review and Testing



Seating limited to first 24!

RSVP by completing this form and sending by **FAX** (530) 222-1918 or **MAIL** SBE Training Center, 2985 Innsbruck Dr., Redding CA 96003

Name _____ Title _____

Company _____

Phone _____ Fax _____

CONTACT (530) 222-1917 FOR MORE INFORMATION