



Building Performance Institute Training Opportunity

Illinois Building Performance Institute Building Analyst & Shell Specialist Contractor Training February 1st – 5th, 2010, 8:00am to 5:30pm Southern Illinois University, Carbondale IL

A **Building Performance Institute (BPI) certified contractor** is trained to provide whole house energy assessments and make recommendations for improvements that will make the home more efficient, comfortable, durable and safe.

BPI certified contractors:

- Provide energy assessment services to homeowners. These assessments are used by homeowners to make informed decisions on the most efficient improvements they can make to their homes.
- The BPI Building Analyst and Shell Specialist incorporate whole building science into their business practices. Rather than only focusing on a specific issue within the home such as the HVAC system, they evaluate the home as a system while also focusing on indoor air quality, health and safety as well as efficiency.
- For more information please visit: www.bpi.org

What are the benefits of getting BPI certified and becoming a Home Performance with ENERGY STAR contractor?

- Gain the ability to find building flaws that can cause discomfort, high utility bills, moisture problems and indoor air quality problems by using state of the art diagnostic tools.
- Enjoy fewer customer call backs, improved customer satisfaction ratings, and an increased rate of referrals from those satisfied customers. This is because of the rigorous, credible BPI program based on the principals of building science and the whole home approach to contracting.
- Develop a sound understanding of building science principles and residential energy use.

Work Location Requirements: This class is offered ONLY for students who live in and/or do considerable business in Illinois. The business must be actively offering or planning to offer Home Performance with ENERGY STAR energy audits. Proof of Illinois services must be provided prior to accepting the student into this class. We require at least four examples of contracts, invoices, licenses or similar documents showing related work in Illinois within the past 2 years. Without such documentation you will not be accepted into the class.

Study and Testing Requirements: Students are required to study the provided Residential Energy book and class room study materials. This is an intensive learning class and successful candidates study in the evenings during the training week as well as attending the class. Computerized written exams will be conducted on the last day of training.

Goal of this class: The goal of this class is to expand the Home Performance with ENERGY STAR (HPwES) Program in Illinois. Illinois HPwES requires contractors to be BPI certified Building Analyst and Shell Specialists.

Class Follow-Up: To fully become a Home Performance with ENERGY STAR contractor students will be required to own a full set of energy auditing equipment (blower door, combustion gas analyzer, etc.), sign a contractor agreement, and carry minimum liability insurance.

More information at www.energystar.gov and www.earthwayscenter.org/homeperformance

Class Cost: With appreciation to ILDCEO for major sponsorship of this class, student fees are only \$1700 made payable to EarthWays Center prior to start of the class. Upon passing both the written and field exams, student will be refunded \$850.00 (1/2 of the class fee). See terms and schedule for full details of refund.

**Special thanks to Southern Illinois University Carbondale,
College of Applied Sciences & Arts - ISAT & SIU Student Chapter of USGBC for
providing the facilities for this training.**



**Training provided by the Energy and Environmental Training Center of Kansas City
Training sponsored by Illinois Department of Commerce & Economic Opportunity**



Local Home Performance with ENERGY STAR program implemented by:

Missouri Botanical Garden's EarthWays Center

3617 Grandel Square, St. Louis MO, 63108, www.earthwayscenter.org

Korey Hart, 314-577-0228, Korey.Hart@mobot.org



Building Performance Institute Training 2/1/2010 – 2/5/2010

This class will teach you how to evaluate the energy performance, comfort and safety of a house through a comprehensive, whole-house diagnostic procedure. You will learn about the hidden flaws often found in residential construction that can cause discomfort, high utility bills, moisture problems and indoor air quality problems. You will learn how to use powerful diagnostic tools to find and correct flaws in a building's thermal envelope.

Who should attend

This workshop is designed for contractors with a building science background who have an interest in providing whole house energy assessments. This class is ideally suited toward insulation, HVAC, and remodeling contractors. Establish yourself on the cutting edge of building performance technology and create a marketing edge for yourself. Participants are expected to be prepared upon certification to purchase necessary equipment and fully integrate into the Illinois Home Performance with ENERGY STAR Program.

What you will learn

- a sound understanding of building science principles and residential energy use
- how to use state-of-the-art diagnostic tools
- how to conduct a comprehensive diagnostic analysis of a home
- Upon passing the written and field exams, you will receive BPI Building Analyst and Shell Specialist Certifications.

Workshop Agenda

Day One

- A brief history of residential energy, an overview of shifting energy ideas, common building / insulation flaws, and an explanation of basic building science principals.

Day Two

- Air flow and air leakage in residential structures, insulation techniques, windows / doors, water heaters, various math formulas and their practical applications.

Day Three

- Lighting and appliances, cooling, health, safety and moisture management – furnaces, including air quality and combustion appliance testing, and pretest review.

Day Four

- Field house: Blower door testing, whole house inspection, data collection, CAZ testing.

Day Five

- Final Topics, self study review and on line exams (4 hours to complete two - one hundred question exams).
- Equipment check out, mentoring scheduling, and exam scheduling (bring your calendars).

Following the February 1 – 5th training:

02/15/2010 – 03/01/2010 Half day field mentoring sessions will be scheduled with small groups. You are encouraged to attend one session. Please bring you calendar as sessions will be scheduled on the final day of class.

Prior to 04/09/2010 you MUST complete two field exams, taken simultaneously; you will have 4 hours to complete the exams.

There will be one set of “loaner” equipment available for class attendees to practice with. A schedule will be set up for the equipment to be exchanged student to student.

The training is conducted at the Southern Illinois University Carbondale Campus.

Class Sessions begin at 8:00 a.m. daily, you must attend every day of the class to be eligible for your class refund.

Daily coffee, juice and pastries are included in your registration. Lunch will be on your own with many options on site. Please let us know of any special dietary needs. Dress is casual.

Registration and Refund

Attendance is limited to 15, so please apply early. Registration fee is refunded only if notice is received seven days before the class. Prior to seven days, there is a \$150 cancellation fee.

One set of written exams and one set of field exams is included with your registration. **Retests will be at the expense of the student at \$125.00 per exam plus \$50 per hour proctor fee plus mileage at \$.50 per mile from EarthWays Center.**

Upon passing both written exams and both field exams, you will receive a refund for ½ of the class fee (\$850). You must complete and pass all exams prior to 04/09/2010 to be eligible.

For more information please call Korey Hart at EarthWays Center:

314-577-0228

EarthWays Center is committed to making services, activities and programs accessible to all participants. If you have special requirements due to disabilities or dietary restrictions, please contact EWC at least two weeks before the start of the workshop.

Application for BPI Training

Name		
Company/Agency		
Address		
City	State	Zip
Work Phone	Work Fax	
Cell Phone (for last-minute or emergency contact only)		
e-mail address		

Apply for acceptance to the training by returning this form & accompanying documents to:

**EarthWays Center, Korey Hart
Korey.hart@mobot.org
3617 Grandel Square
St. Louis MO 63108**

**Or fax attn. Korey Hart to: 314-577-0298
In case of emergency, contact Korey via cellular phone at 314-960-9439**

Registration fee is \$1700 per person

Applications must be received by close of business Tuesday 01/08/2010 to be considered. Applicants will be notified Friday 01/12/2010.

Please attach proof of your work in Illinois. We require at least four examples of contracts, invoices, licenses or similar documents showing related work in Illinois within the past 2 years. Also provide a brief description of your current business, building science background, and your plans for becoming a Home Performance with ENERGY STAR contractor. Without such documentation you will not be accepted into the class.

Once application is reviewed, you will be notified by email or phone of acceptance. You will then be required to pay for the class in full by Wednesday January 20th, directions to class location and further details will then be provided.