



2017 Course List

ENERGY EFFICIENCY COURSES

Whole House Air Leakage Control Installer

Knowledge/Experience Level: Entry **Length:** 4.5 days (34 hours)

Who Should Take This Course: This course is designed for individuals wishing to enter the energy efficiency field and individuals who are already in the field and want to enhance their air sealing and insulation skills and earn BPI (Building Performance Institute) certification.

Course Description: The class includes 4.5 days, with combined classroom and hands-on laboratory experiences each day, introducing building science with a focus on the installation of specific control measures in accessible and inaccessible areas of existing residential homes. Examples of competencies include fixing various types of air leakage pathways, and installing dense packed cellulose. The primary goal of the Whole House Air Leakage Control course is to prepare individuals to properly install air sealing and insulation in residential settings

Certification: Each participant will be prepared to take the test to earn BPI certification as a Whole House Air Leakage Control Installer. Students who become certified are prepared to work in the home performance field as air sealers, insulators, contractors, or other jobs related to residential energy efficiency. The course and certification has proven to be very useful for Building Analysts as well.

Prerequisites: None **CEUs:** 17

Cost: \$1,795 (includes course materials, training and BPI testing fees)

Building Analyst/Envelope Professional

Knowledge/Experience Level: Experienced/Skilled **Length:** 7 days (53 hours)

Who Should Take This Course: This course is most appropriate for individuals who have had some entry-level experience or training in energy efficiency or who have experience in the area of construction or related fields. Successful completion of this course will prepare individuals to meet the BPI Home Energy Audit Standard. This course uses curriculum that is consistent with BPI performance standards.

Course Description: This course encompasses the entire Building Analyst curriculum and an additional day focused entirely on Envelope Professional (EP) specifics. Students will gain the knowledge, skills, and abilities to work in the residential home performance field, analyzing homes for energy efficiency and prescribing retrofit options.

Course includes six days of classroom and hands-on laboratory and/or training house instruction and one day of instructor-lead preparation for examinations, providing a sufficient amount of time to teach the fundamentals of building science and analysis with an emphasis on preparing for both the Building Analyst and Envelope Professional examinations. The course also covers why the diagnostic process is so important, why problems related to the building shell such as moisture, ice dams, mildew and drafts were a problem in the first place, and more importantly how to mitigate them.

Certification: Successful completion of BPI Building Analyst and Envelope certifications provide the foundation of necessary training to allow a company to attain BPI accreditation.

Prerequisites: None **CEUs:** 13.25

Cost: \$2,890 (includes course materials, training and BPI testing fees)

ASHRAE 62.2 2013

Knowledge/Experience Level: Experienced/Skilled **Length:** 1 day (8 hours)

Who Should Take This Course: The class curriculum is suitable for weatherization auditors, crews and those seeking a better understanding of ventilation and basic building science.

Course Description: ASHRAE 62.2 is designed to introduce students to ventilation using a house as a system approach. As homes are air sealed tighter, they require proper ventilation to minimize the potential for moisture and durability issues. This session will explore how to

evaluate existing ventilation systems using a variety of tools such as anemometers and balometers, and how to calculate the correct ventilation needs of the building.

Students taking this course will gain a basic understanding of building science in addition to ventilation. Students will be instructed in both classroom and lab settings to ensure maximum understanding of different ventilation strategies and how they relate to the house a system.

The course will cover the ASHRAE 62.2-2013 standard for Ventilation and Acceptable Indoor Air Quality as it applies to existing homes.

Topics covered include:

- calculating whole house ventilation per ASHRAE 62.2-2013
- various natural and mechanical ventilation strategies available
- understanding of ventilation effects on Combustion Appliance Zone
- verifying ASHRAE required measures

Students will have hands on time with fans, controls, ducting, and flow measurement all related to real world applications, not just classroom theory and certificate of completion.

Certification: None

CEUs: 4

Prerequisites: Field experience with energy audits under any DOE funded program.

Cost: \$240

FOR MORE INFORMATION ABOUT BPI CERTIFIED COURSES

http://www.bpi.org/professionals_why.aspx