

BPI Building Analyst Certification

The Standard in Home Performance Analysis



Course Description

BPI Building Analyst Certification two-week course is now nationally-recognized across the energy efficiency industry and becoming mandatory for energy efficiency workers. This training was designed to teach participants how to perform comprehensive, whole-home assessments - identifying problems at the root cause and prescribing and prioritizing solutions based on building science. In this two week training, industry experts will guide participants through the classroom activities and field processes. Participants will have the opportunity to receive field training in two local residences.

After successful testing of the written and field exam, trainees receive a *BPI Building Analyst* certification valid for 3 years. BPI credentials allow individuals and organizations to provide residential energy audit and retrofit services to homeowners that result in greater energy efficiency, promote major energy savings and help create healthy and comfortable living environments for homeowners.

Learning Activities

- Building health and safety
- Fundamentals of building science
- House as a system concept
- Client interview questions and techniques
- Building envelope and framing types
- Thermal and pressure boundaries
- Wall & attic insulation evaluation
- Understanding controlled ventilation
- Blower door setup and testing
- Building calculations: area, perimeter & volume
- Calculations for building airflow and ventilation, airflow standards, and ventilation requirements
- Overview of combustion sciences
- Heating and domestic hot water systems
- BPI combustion safety testing protocols
- Carbon monoxide safety and testing
- Combustion appliance zone testing
- Field audit steps and techniques
- Review of BPI standards

Prerequisites

- Must have completed the *Fundamentals of Energy Efficiency course* or have 2-3 years construction experience
- Must pass the preliminary test for BPI administered by iCAST
- Interest in the energy efficiency field, e.g., auditing/installations
- Comfortable with crawling around in crawl spaces, attics and other confined spaces
- Driver's license & transportation

