Building Shell/Envelope Professional Certification Training

Length of Course - 3 days

Course description - This course is a residential specialization that focuses on ways to enhance a home envelope's thermal and pressure boundaries through insulation and airsealing techniques. Every home is different and it is important to understand why problems related to the building (moisture, ice dams, mildew, and drafts, etc.) were created in the first place. As an individual, this course will prepare you to understand not only how to analyze a home, but help you understand what solutions to implement.

Target Audience - HERS Raters, BPI Building Analyst Professionals, Home Inspectors, HVAC Professionals, Insulation Professionals, General Contractors, Home Builders, Engineers, Architects, and more.

Course Includes -

- Pre-course study material including quizzes and review
- Everblue Study Guide
- 7 hours of classroom training
- 7 hour of field training
- BPI Envelope Professional 2 hour proctored written exam and written exam fee
- BPI Envelope Professional 2 hour one-on-one proctored field exam and field exam fee

Objectives -

- Understand energy and how energy can transfer in a home.
- Define building shell and understand how it relates to a home's energy consumption.
- Explain diagnostic equipment for evaluating a building's thermal envelope.

Syllabus -

(DAY ONE)

1. BPI Building Shell/Envelope Overview
2. Energy
3. Moisture
4. Pressure Boundary
5. Thermal Boundary
6. Mechanical Ventilation
7. Forced Air Distribution Systems
8. Combustion Safety
9. Review of BPI Standards

(DAY TWO)

1. Blower Door Testing
2. Duct Testing
3. Combustion Appliance Zone Testing
4. Heat Loss

CLASSROOM	FIELD TRAINING
- Thermal & Pressure Boundary Evaluation	- Testing In and Testing Out Procedures
- Air Sealing & Dense-pack Techniques	- Indoor Air Quality Assessment
- Prioritizing Air Sealing Work	- Indoor Moisture Sources & Solutions
- Insulation Techniques & Applications	- Critical Shell Identification & Inspection
- Window & Door Inspections	- Blower Door Applications
- Ventilation Requirements and Systems	- Duct Diagnostics
- Health & Safety	

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