

Envelope Professional

COURSE DESCRIPTION

Using a “whole-house” performance-based approach, this training builds on Building Analyst experience and focuses on advanced building envelope diagnostic and repair skills, new equipment and evaluation materials to address complex problems in residential buildings. This course is designed to help students prepare for Building Performance Institute’s (BPI) Envelope Professional online and field exams.

Prerequisites:

Building Analyst Training or BPI Building Analyst Certification

Schedule:

The Envelope Professional Course consists of 12 hours of classroom instruction and 18 hours of field training for a total of 30 instructional hours.

Training Topics:

- Health and Safety Issues
- Moisture Measurements and How They Affect Your Workscope
 - Sling Psychrometer
 - Moisture Meter
 - Digital Hygrometer
 - Charts and Interpretations
- Treating the Thermal Envelope
- Insulation Techniques and Installation Standards
- Air Sealing and Installation Standards
- Advanced Pressure Diagnostic Applications
 - Blower Door as Series Leakage Testing
 - Blower Door Testing in Duplex Housing
- Forced Air Distribution System Overview
 - Visual Inspection of the Duct System
- Diagnostic Testing for the Forced Air Distribution System
 - Duct Blower and Duct Leakage Measurement
- Treating the Forced Air Distribution System
- Mechanical Ventilation
 - Fan Sizing Calculations
 - Installed Fan Measurement
 - Controls and Fan Cycling
- Building System Interrelationships and Final Workscope Development
- Field Practical

NYSERDA's Workforce Development Program, offers energy efficiency and building science courses through training partners across New York State. This training is recognized by the Building Performance Institute (BPI) and prepares students for BPI certification exams.

The curriculum for the training courses was developed under contract and is the property of NYSERDA. This popular curriculum is available to other training entities through licensing agreements with NYSERDA. Schools, energy service providers, private industry, and public entities have used this curriculum, saving them time and money and giving them the ability to begin training programs immediately.

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