

BPI Building Analyst / Envelope Shell Blended

Ecotech Training's intensive BA/ES Combo Blended Course combines our BPI Building Analyst training and Envelope Professional training into a concise program. The course is based on the BPI Standards, which emphasize the 'house-as-a-system' approach to inspecting a home, where all systems are interconnected: from the HVAC equipment, to the envelope, the foundation, walls, roof, doors and windows. You will gain knowledge and experience in using diagnostic equipment such as blower doors and combustion analyzers to ensure that systems are functioning together to maximize home performance, comfort, energy efficiency, safety, and durability.

By combining the Building Analyst and Envelope Professional certification courses into one program, you will gain a comprehensive understanding of the all the knowledge and skills needed to be a certified energy auditor, while saving time and money on training. Together, the BPI Building Analyst and BPI Envelope Professional certifications make your firm eligible for accreditation by The Building Performance Institute (BPI). BPI Accreditation is often required to offer federal, state and local incentives to your customers.

This course is ideal for home inspectors, HVAC technicians, general contractors, home builders and anyone interested in a career in energy auditing. The classroom component of the Building Analyst and Envelope Professional training courses can be taken either in person or online.

BPI Building Analyst / Envelope Shell Professional Combo Subjects & Topics	
Building Analyst <ul style="list-style-type: none"> Background, Benefits & Specialties of BPI Field Audit Walkthrough <ul style="list-style-type: none"> Interior - Heating Systems, Cooling Systems, & Domestic Hot Water Systems Exterior - Building Shell, Windows & Doors, Air Leakages, Blower Door Testing, Airflow, Insulating Lighting, & Electrical Appliance Peak Demand Health & Safety - Issues, Best Practices, & Analysis Assessment Process - Pre-Audit, Exterior, Interior, System Inspection, & Observations - Points of Weakness, Damages & Structural Concerns Building Science Basics Field Equipment Basics - Schematics Gathering & Equipment Operation 	Envelope-Shell <ul style="list-style-type: none"> Energy Basics - Thermodynamics, Form of Energy, Temperature Change Heating Degree Day & Heat Transfer Moisture - Controlling Moisture, Moisture Movement & Relative Humidity Thermal Boundary - Building Shell, R & U Value, BPI Installation Standards & Air Sealing Combustion Safety, Elements, By-Products, & Definitions Pressure Boundary Airflow Principles, Terms & Definitions, Air Sealing Materials & Techniques Mechanical Ventilation - Types of & Balanced Ventilation, Sound Ratings & Building Airflow Pressure Diagnostics - Equipment, Zonal Pressure Diagnostics, Interior & Exterior Pressure Boundaries Forced Air Distribution System & Distribution Losses

BPI Building Analyst / Envelope Shell Blended Schedule

	Online	Online	Field Training	Day 4	Day 5	Day 6
8 AM	Principles of Energy & Building Science, Building Shell & Thermal Envelope	Thermal & Pressure Boundary Evaluation	Field Training - Blower Door & Manometer, Combustion	Review	Field Exam Slot	Field Exam Slot
9 AM				Written Test Building Analysis	Field Exam Slot	Field Exam Slot
10 AM						
11 AM						
12 PM	Online	Online	Lunch Break	Lunch Break	Instructor Break	Instructor Break
1 PM	The Energy Audit Process, Air Flow Basics, Combustion Safety & Building, Systems Overview	Air Sealing, Dense-Packing, Insulation, & Ventilation	Field Training - Testing In & Out Procedures, Blower Door & Dust Blaster Testing	Written Test Envelope Shell	Field Exam Slot	Field Exam Slot
2 PM				Instructor Break	Field Exam Slot	Field Exam Slot
3 PM				Field Exam Slot	Field Exam Slot	Field Exam Slot
4 PM						
5 PM						
6 PM						