

TREC BILT Session Agenda

3 Sessions

1. Energy Efficiency Workforce Employer Needs
2. Energy Efficiency Workforce Training Needs and Capacity
3. Supporting Trainees in Skill Development: Wraparound & Support Services

Each Session

- Objectives and Background Information: All Attendees
- Discussion: Two Breakout Groups

Session 1

Energy Efficiency Employer Workforce Needs

Session 1: Background

- Review the energy conservation measures (weatherization and HVAC) typically installed in the EE projects in the TREC program
- Review the job titles commonly used in EE retrofit programs
- Review the certification programs used to qualify the EE retrofit workforce

Typical Energy Conservation Measures

Efficient lighting products;

Air sealing;

Duct sealing and repair;

Insulation upgrades (attic, wall, etc.);

Heating/cooling equipment maintenance;

Hot water conservation measures (water heater insulation, water heater pipe insulation, energy-saving showerheads and aerators);

Replacement of inefficient refrigerators;

Thermostats;

And other measures

Job Titles Commonly Used in EE Retrofit Programs

- Installer/Technician
- Crew Leader
- Energy Auditor
- Quality Control Inspector

Existing Retrofit Programs in New Jersey

Comfort Partners

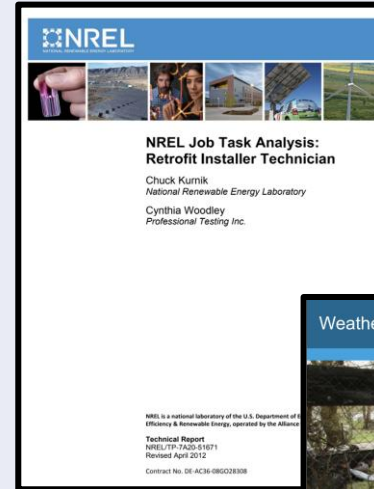
Home Performance with ENERGY STAR

Weatherization

Nationally Vetted JTAs/KSAs and Curricula

Installer/Technician Job Description:

A Retrofit Installer/Technician installs energy-efficiency measures to single family or 2-4 unit-homes using a variety of building science best practices to improve, safety, comfort, durability, indoor air quality, and energy efficiency.



Relevant Certification Programs

Building Performance Institute
Weatherization

Session 1: Discussion

- What are your current hiring practices?
- How do you recruit new EE hires?
- What are your current hiring needs?
- What skills are missing from those you are hiring? (e.g., foundational skills)
- Other

Session 2

Energy Efficiency Workforce Training Needs and Capacity

Session 2: Objectives

- Review national current EE training programs and materials
- Characterize current EE training organizations and capacities in New Jersey
- Identify EE retrofit training and capacity building needs

Session 2: Background

- Review national training capacity and materials (BPI trainers, weatherization training centers)
- Review BPI certification processes and training
- Review New Jersey training organizations and capacity

National Training Capacity and Materials

BPI Trainers

Weatherization Training Centers

BPI Certification Processes and Training:

Man Nga Chan

**Director of Program & Market Development
Building Performance Institute**

BPI is a leading certification and standard-setting organization for home performance professionals, accredited by the American National Standards Institute, Inc. (ANSI).

BPI sets the technical standards for home energy audits and for energy efficiency, health, and safety improvements.

We offer 14 professional certifications and 4 Certificate programs with rigorous written and field exams.



Building
Performance
Institute



TRADES CONTRACTOR

BPI PRO PATHWAY

1 CERTIFICATES

Earning the **Building Science Principles (BSP) Certificate of Knowledge** is your first step into the world of energy efficient home performance. BSP demonstrates how various components of a home interact to affect the home's overall performance.

- Self-paced or classroom to online exam in 1 week or less

2 PRIMARY

In **Building Analyst Technician (BA-T)**, you'll learn about buildings, their systems, and industry standards to conduct data collection and diagnostic testing for existing homes. **Prerequisite: Building Science Principles.**

- 3 - 4 Days Training + field test (up to 4 hrs)

In **Air Leakage Control Installer**, verify your ability to tighten the building envelope, reduce energy loss from air leakage, and better indoor air quality by reducing pollutants and allergens.

- 2-3 Days Training + field test (up to 7 hrs)



With the **Infiltration and Duct Leakage**, you'll gain the skills needed to offer duct leakage and blower door tests, in compliance with IECC codes for **new home construction or existing home remodels.**

- 1 - 2 Days Training + field test (up to 2 hrs)

3 CORE

Develop your scope of work with the **Building Analyst Professional (BA-P)**, where you'll learn to conduct energy modeling, building analysis, and data evaluation to provide a comprehensive report with a list of prioritized home performance recommendations.





Prerequisite: Building Analyst Technician.

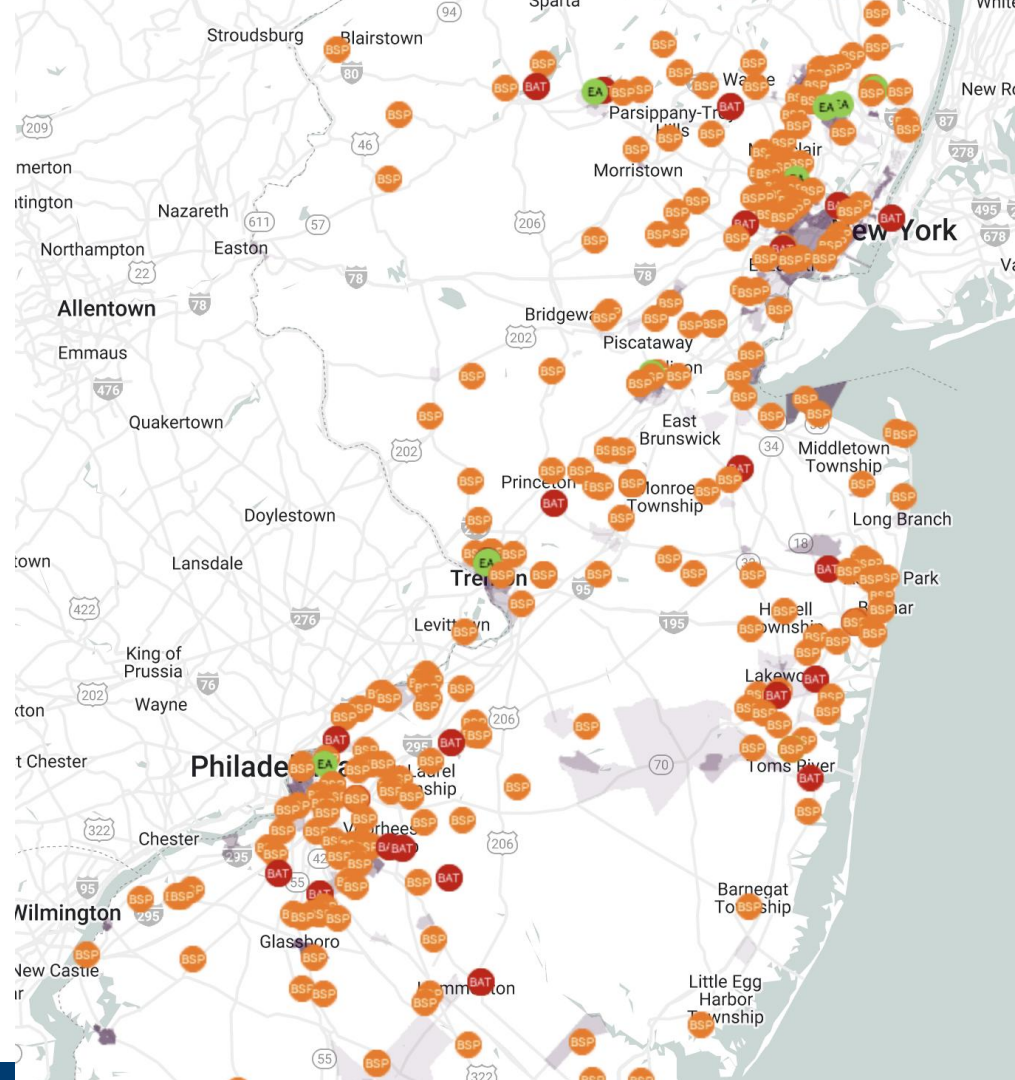
- 1 Week Training + exam (up to 2 hrs)

4 ADVANCED

Demonstrate your **advanced competency** through rigorous written and field exams and work experience prerequisites. Certificates are supported by the **U.S. Department of Energy (DOE) and its National Renewable Energy Laboratory (NREL).**



-  Building Science Principles
-  Building Analyst – Technician
-  Professional Building Analyst –
-  Energy Auditors



New Jersey Training Organizations and Capacity

Isles

Community Colleges?

BPI Trainers Network

Weatherization Training Centers (out of state)

Evolving Landscape: Potential New Centers May Be Emerging

Session 2: Discussion

- What are the most pressing current EE retrofit training needs in New Jersey?
- What is the current EE retrofit training capacity in New Jersey?
- What are the key obstacles to expanding this capacity to meet the state's most pressing EE retrofit training needs?
- What are some key strategies for overcoming these obstacles going forward?