



Weatherization

COURSE CATALOG

Contents

Weatherization

Courses.....2-13

Energy Efficiency

Courses.....14-16

Building Performance Institute/ Home Energy Professional

Continuing Education Program Description:

Weatherization, in the broadest sense, is the practice of protecting a building – exterior and interior – from the elements. Energy efficiency is a fast-growing, international industry consisting of green technologies such as solar photovoltaic systems, wind turbines, and eco-building. The continuing education courses offered at Baltimore City Community College can help you enter or advance in careers in energy efficiency. Weatherization Installers and Technicians perform a variety of activities to weatherize homes and make them more energy efficient. Skills include repairing windows, insulating ducts, and performing heating, ventilating, and air-conditioning (HVAC) work. In addition, workers may perform energy audits and advise clients on energy conservation measures.

Building Performance Institute (BPI):

BPI: Weatherization Installer Fundamentals

BPI: Building Analyst

BPI: Envelope Professional

BPI: Building Analyst & BPI: Envelope Professional Combo

Home Energy Professional (HEP):

HEP: Energy Auditor

HEP: Quality Control Inspector (QCI)

General Courses:

OSHA 10

OSHA 30 (Construction Industry)

Solar Photovoltaic (PV) Mastery Combo

RESNET HERS Rater

Building Performance Institute (BPI) Weatherization Installer Fundamentals

Continuing Education Course Description:

The Weatherization Installer/Technician Fundamentals module lays the groundwork for new weatherization installers interested in understanding and expanding upon their knowledge of weatherization. Topics covered include: safe work practices, preparing and cleaning up the job site, tools and equipment maintenance, and all typical measures, from attic air sealing to dense-pack sidewall insulation. Training also includes identifying roofing, flashing, and attic ventilation needs. This is your first step in becoming a weatherization professional!

In-Person or Online: In-Person

Length of Time: 56 hours

Cost: \$1,955 *Pricing is subject to change*

Textbook: Materials included in course costs

Requirements: None

Successful Completion: Baltimore City Community College Certificate of Completion (3.5 CEUs). Students will also have access to their transcripts.

Job Outlook: O*Net Code 47-4099.03 –Weatherization Installers and Technicians. O*Net is an online, occupational information network that has up-to-date information on many occupations. www.onetonline.org

Contact Information:

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Building Performance Institute (BPI) Building Analyst

Continuing Education Course Description:

This course is aligned with the Building Performance Institute (BPI) Building Analyst Professional standards for residential energy auditing. It prepares individuals to understand the various components of building science, including combustion safety, blower door testing, energy analysis, and home performance assessments. At successful completion of the course, students should have the knowledge to identify areas of improvement within a home, providing homeowners with the information necessary to reduce energy usage and costs.

In-Person or Online: In-Person

Length of Time: 32 hours

Cost: \$1,895 – Pricing does not include the cost of the BPI Certification exam. *Pricing is subject to change.*

Textbook: Materials included in course costs

Requirements: None

Successful Completion: Baltimore City Community College Certificate of Completion (3.2 CEUs). Students will also have access to their transcripts.

Job Outlook: O*Net Code 13-1199.01 -Energy Auditors. O*Net is an online, occupational information network that has up-to-date information on many occupations. www.onetonline.org

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Building Performance Institute (BPI) Envelope Professional

Continuing Education Course Description:

Once you have earned your BPI Building Analyst certification, you might consider enhancing your skills and propelling yourself and your company ahead of the competition with the BPI Envelope Professional certification. This course is a residential specialization that focuses on ways to enhance the envelope's thermal and pressure boundaries through air sealing techniques. As an advanced certification through BPI, students taking an Envelope Professional course learn many of the key areas covered in the Building Analyst course, including building science, combustion safety, blower door testing, energy analysis, and home performance assessments. The one key difference, however, is the necessity for Envelope Professionals to not only identify, but recommend areas of improvements in the home.

In-Person or Online: In-Person

Length of Time: 32 hours

Cost: \$1,895 – Pricing does not include the cost of the BPI Certification exam. *Pricing is subject to change.*

Textbook: Materials included in course costs

Requirements: None

Successful Completion: Baltimore City Community College Certificate of Completion (3.2 CEUs). Students will also have access to their transcripts.

Job Outlook: O*Net Code13-1199.01 -Energy Auditors. O*Net is an online, occupational information network that has up-to-date information on many occupations. www.onetonline.org

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Building Performance Institute (BPI) Building Analyst *and* Building Performance Institute (BPI) Envelope Professional Combo

Continuing Education Course Description:

This intense boot camp combines BPI Building Analyst and Envelope Professional training into one course and prepares students for both examinations. This combination course will qualify you to become a certified home energy auditor with the ability to diagnose energy efficiency issues in the home, as well as understand problems relating to the home's envelope, such as moisture, ice dams, mildew, and drafts.

In-Person or Online: In-Person

Length of Time: 32 hours

Cost: \$2,745 – Pricing does not include the cost of both the BPI Building Analyst Exam and the BPI Envelope Professional exam. *Pricing is subject to change.*

Textbook: Materials included in course costs

Requirements: None

Successful Completion: Baltimore City Community College Certificate of Completion (3.2 CEUs). Students will also have access to their transcripts.

Job Outlook: O*Net Code13-1199.01 -Energy Auditors. O*Net is an online, occupational information network that has up-to-date information on many occupations. www.onetonline.org

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Home Energy Professional (HEP) Energy Auditor

Continuing Education Course Description:

Offered by the Building Performance Institute and supported by the U.S. Department of Energy and its National Renewable Energy Laboratory (NREL), the new Home Energy Professional Energy Auditor Certification is one of the industry's highest credentials. This advanced certification proves that you have the knowledge, skills, and abilities to get the job done right. It also verifies through prerequisites software modeling skills, previous work history in doing energy audits, and can develop a scope of work to implement home performance measures in the home. The Energy Auditor certification is specifically tailored to the job task of energy auditing. This course consists of training in the diagnostic/analytical skills needed to perform an energy audit including the energy efficiency, health, and safety of a home. Training also includes the use diagnostic equipment to identify areas for energy savings and use modeling software to produce an audit report and develop a prioritized scope of work for the customer.

In-Person or Online: In-Person

Length of Time: 52 hours

Cost: \$3,595 – Pricing does not include the cost of the HEP Energy Auditor certification exam

Textbook: Materials included in course costs

Requirements:

This course is open to anyone, but to be eligible for this specialty certification, each student MUST meet the following prerequisites as set forth by BPI:

- Education: GED/high school diploma or equivalent education
- Experience: minimum of 1,000 hours of relevant experience, during which the candidate has accomplished one or more of the following roles: be a crew lead in a weatherization (WAP) trade or related field, be in a building science trade performing audits under the supervision of an auditor, or be an energy auditor
- Candidate must have completed (with proof) 15 comprehensive whole house audits, such as home performance, WAP RESNET, BPI, etc.
- You must obtain at least 20 points from any combination of these activities:

	Possible Points	Maximum Points
Building Experience	5 for each 1,000 hours	10
Industry-Specific Training	5 for every 40 hours	10
Industry Certifications (BPI, RESNET)	5 per certification	10

To complete an application to sit for the exam, go to www.bpi.org.

Successful Completion: Baltimore City Community College Certificate of Completion (5.2 CEUs). Students will also have access to their transcripts.

Job Outlook: O*Net Code 13-1199.01 -Energy Auditors. O*Net is an online, occupational information network that has up-to-date information on many occupations. www.onetonline.org

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HEP Quality Control Inspector (QCI)

Continuing Education Course Description:

A quality control inspector is a residential energy efficiency professional who ensures the completion, appropriateness, and quality of energy upgrade work by conducting a methodological audit/inspection of the building, which includes performing safety and diagnostic tests and observing the work. A quality control inspector is also responsible for making sure a home is in compliance with government regulations, best practices, and applicable codes. They ensure customer satisfaction through interviews and feedback on the retrofit work done to their home. This training prepares individuals for the Quality Control Inspector job task analysis (JTA) developed by the National Renewable Energy Laboratory and the U.S. Department of Energy. Students will learn how to conduct in-process quality assurance inspections, conduct post-work visual and sensory inspections, perform post-work diagnostic inspections for health and safety, assess and ensure worker professionalism, verify compliance with program or project requirements, and evaluate customer satisfaction.

In-Person or Online: In-Person

Length of Time: 40 hours

Cost: \$2,395 – Pricing does not include the cost of the HEP Quality Control Inspector certification exam

Textbook: Materials included in course costs

Requirements:

This course is open to anyone, but to be eligible for this specialty certification, each student MUST meet the following prerequisites as set forth by BPI:

- You must obtain at least 40 points from any combination of these activities:

	Possible Points	Maximum Points
Industry Inspector specific experience	10 for each 1,000 hours	20
Other industry specific experience (crew leader/energy auditor) minimum 2,000 hours in either activity	5 for crew leader 10 for energy auditor - minimum of 15 audits (proof required)	15
Building Experience	5 for each 1,000	10
Industry-Specific Training	5 for every 40	10

	hours	
Industry Certifications (BPI, RESNET)	5 per certification	10

To complete an application to sit for the exam, go to www.bpi.org.

Successful Completion: Baltimore City Community College Certificate of Completion (4 CEUs). Students will also have access to their transcripts.

Job Outlook: O*Net Code 47-4011.00 –Construction and Building Inspectors. O*Net is an online, occupational information network that has up-to-date information on many occupations. www.onetonline.org

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OSHA 10 (Construction Industry)

Continuing Education Course Description:

The 10-hour Construction Industry Outreach Training Program is intended to provide an entry level worker's general awareness on recognizing and preventing hazards in a general industry setting. The Occupational Safety and Health Administration (OSHA) 10-hour training course also provides students with an overview of how OSHA operates.

In-Person or Online: In-Person

Length of Time: 10 hours

Cost: TBD

Textbook: Materials and certification test included in course costs

Requirements: None

Successful Completion: OSHA 10-Hour Construction Industry Outreach Department of Labor Course Completion Card and Baltimore City Community College Certificate of Completion (1 CEUs). Students will also have access to their transcripts.

Job Outlook: This course is applicable for many weatherization/energy auditor professions

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OSHA 30 (Construction Industry)

Continuing Education Course Description:

OSHA 30 for the Construction Industry provides training for workers and employers on the recognition, avoidance, abatement, and prevention of safety and health hazards in workplaces in the construction industry. The program also provides information regarding workers' rights, employer responsibilities, and how to file a complaint.

In-Person or Online: In-Person

Length of Time: 30 hours

Cost: \$1,195 *Pricing is subject to change*

Textbook: Materials and certification test included in course costs

Requirements: None

Successful Completion: OSHA 30 (Construction Industry) Card and Baltimore City Community College Certificate of Completion (3 CEUs). Students will also have access to their transcripts.

Job Outlook: This course is applicable for many weatherization/energy auditor professions.

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Solar Photovoltaic (PV) Mastery Combo

Continuing Education Course Description:

The Solar PV Mastery Combo course prepares students for the NABCEP solar installation certification test. The North American Board of Certified Energy Practitioners (NABCEP) is a standard-bearer in the solar industry and rose to prominence by defining the education and experience needed to excel in the solar workforce. This solar prep course prepares individuals with the knowledge, skills, and hands-on experience needed to become fully certified solar energy professionals.

The training begins with an introduction to solar energy technology, including important terms and the history of solar. From there, we'll dive into occupational health and safety concepts with OSHA 10 Construction training. This training will teach you how to identify, abate, avoid, and prevent job-related hazards on a construction site. The final component of the Solar PV Mastery series is the live solar panel installation training. In this portion, you will help build a 1 kW solar panel array. At the conclusion of class, you will have earned all 58 hours of education required to pursue the NABCEP PV Installation Professional Certification. You can use these tangible job skills to work as a solar contractor or apprentice and thereby gain work experience as a solar professional.

In-Person or Online: 40 Hours In-Person; 18 hours online

Length of Time: 58 hours

Cost: \$1,995; *Pricing is subject to change.*

Textbook: Materials included in course costs

Requirements: None

Successful Completion: Baltimore City Community College Certificate of Completion (5.8 CEUs). Students will also have access to their transcripts.

Job Outlook: O*Net Code 47-2231.00 –Solar Photovoltaic Installers. O*Net is an online, occupational information network that has up-to-date information on many occupations. www.onetonline.org

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RESNET HERS Rater

Continuing Education Course Description:

This training course will teach you the knowledge necessary to provide homeowners and home builders a detailed analysis of energy consumption and money-saving energy conservation strategies. In this course, you will learn how to help builders and architects improve home energy efficiency using the house-as-a-system approach. We will teach you the basics of building science, energy modeling, and how to conduct a rating on a home.

In-Person or Online: In-Person

Length of Time: 40 hours

Cost: \$1,995; *Pricing is subject to change.*

Textbook: Materials provided in course costs

Requirements: None

Successful Completion: Baltimore City Community College Certificate of Completion (4 CEUs). Students will also have access to their transcripts.

Job Outlook: O*Net Code13-1199.01 -Energy Auditors. O*Net is an online, occupational information network that has up-to-date information on many occupations. www.onetonline.org

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