

WILLIAMS CHAMPIONS COSTS SAVINGS FOR ALL PATRONS

When Energy Efficiency Arkansas (EEA) Facilitator John Fetherston first reached out to Pine Bluff-Jefferson County Public Library System Director Ricky Williams about presenting to his patrons, COVID protocols in place at that time greatly limited the opportunities. Even when Fetherston made his first energy and cost savings presentation, it was via Zoom and attended only by Williams and other library staff members. Even so, Williams said they immediately saw the value in what he presented. As their world began “opening up,” Williams scheduled Fetherston to make presentations at all five of the locations for which he has responsibility—libraries in Pine Bluff, White Hall, Watson Chapel, Redfield, and Altheimer.

Williams said, “We have very loyal patrons at each of our libraries. To be fair to all of them and get the word out on how to save energy and money, I decided to have John present at all locations, making sure that even patrons who live near our rural libraries in Altheimer and Redfield would have a chance to attend the presentation.” He added, “Patrons said the information presented was helpful and valuable. From my perspective, we definitely plan to keep working with John to schedule more of these events in the months and years to come. He is very passionate about his work and always keeps the lines of communication open with me.”



RICKY WILLIAMS
DIRECTOR,
PINE BLUFF-JEFFERSON CO.
PUBLIC LIBRARY SYSTEM

UPCOMING EVENTS		
DATE	EVENT	CITY
FEB. 28	SE Arkansas Regional Library	Lake Village
MARCH 3	Clark County Library	Arkadelphia
MARCH 7	Grant County Library	Sheridan
MARCH 10	Watson Chapel Public Library	Pine Bluff
MARCH 11-12	Benton Home Improvement Expo '22	Benton
MARCH 14	T.C. Vaughan Senior Center	Morrilton
MARCH 15	Crossett Public Library	Crossett
MARCH 18-19	Conway Home Improvement Expo '22	Conway
MARCH 25-26	Sherwood Home Improvement Expo '22	Sherwood
MARCH 26-28	2022 Arkansas Municipal League Hybrid Winter Conference	Little Rock
MARCH 29	Scott County Library	Waldron
MARCH 29	Sebastian County Library	Greenwood
MARCH 30	Randolph County Library	Pocahontas
APRIL 2-3	40/29 & Arkansas CW Women's Expo	Springdale
APRIL 8-9	Cabot Home Improvement Expo '22	Cabot
APRIL 13	Mary I. Wold Cleburne County Library	Heber Springs
APRIL 22	Calhoun County Library	Hampton
APRIL 23-24	HBA of Greater Little Rock 70th Annual Home Show	Little Rock
APRIL 26	Malvern-Hot Spring County Library	Malvern
MAY 9	Johnson County Senior Activity Center	Clarksville
MAY 11	Craighead County Jonesboro Public Library	Jonesboro
JUNE 1	Dallas County Library	Fordyce
JUNE 2	Woodruff County Library	Augusta
JUNE 7	Madison County Senior Activity Center	Huntsville
JUNE 8	Marion County Senior Activity & Wellness	Flippin
JUNE 10	Lawrence County Library	Walnut Ridge
JUNE 16	Alma Public Library	Alma
JUNE 23	Charleston Public Library	Charleston
JUNE 25	Hot Springs Village Home Improvement Expo '22	Hot Springs Village
JULY 12	Stone County Library	Mountain View
AUG. 15	Boone County Senior Center	Harrison
SEPT. 13	Pike County Public Library	Murfreesboro
OCT. 3	Ashdown Community Library	Ashdown
OCT. 3	Foreman Public Library	Foreman
NOV. 7	Elkins Senior Activity & Wellness Center	Elkins

RECENT EVENTS			
DATE	EVENT	INSTRUCTOR	CITY
FEB. 7	Yell County Senior Activity Center	John Fetherston	Dardanelle
FEB. 8	Redfield Public Library	John Fetherston	Redfield
FEB. 9	Ralf D. Graf Library of Mulberry	John Fetherston	Mulberry
FEB. 10	White Hall Library	John Fetherston	White Hall
FEB. 22	Pine Bluff Public Library	John Fetherston	Pine Bluff
FEB. 23	Lafayette County Library	John Fetherston	Lewisville
FEB. 24	Altheimer Public Library	John Fetherston	Altheimer

UPCOMING TRAININGS		
DATE	EVENT	CITY
MARCH 9	Cost Savings with Variable Frequency Drives	Hot Springs
DEC. 31	Building Science Principles online course and exam	Online

If you know of an individual, program, or organization that has received recognition in the energy efficiency field, please let us know so we can highlight their achievement.



ENVIRONMENTAL
QUALITY

FOR MORE INFORMATION, CONTACT:

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MANUFACTURING SOLUTIONS
Accelerate. Transform. Win.

Cost Savings with Variable Frequency Drives

Does your operational team really understand VFD technology?

This half day introductory training discusses how VFDs can improve efficiency, safety and cost savings while providing a brief history of “The Grid” and explaining the voltages both of AC and DC generation.

Attendees will learn:

- How Variable Frequency Drives and other Technologies can be implemented to extend the life of Industrial Equipment and to reduce Demand Charges and penalties.
- How end users and maintenance staff impact the Utility infrastructure.
- About motor characteristics and motor controls for VFDs.
- About best practices to reduce mechanical wear and tear and how to offset oversizing.
- About a Powerflex 525 Variable Frequency Drive through **hands-on demonstration** using a connected components workbench and PLC software.

Who Should Participate?

End users, maintenance, operations, plant managers, engineers, distributors, manufacturers, vendors, or consultants.

Attendees earn credit for four (4) hours of attendance for this training

This class is underwritten and sponsored by Energy Efficiency Arkansas with training expertise and facilities provided by National Park College.



When/Where:

Wednesday, March 9, 2022

8:00 a.m. – 12 p.m.

**National Park College
Building #26, Room 103
Hot Springs, AR 71913**

**(Free parking is behind the
gymnasium- Bldg. #7)**

Cost: \$35

**Registration for this training closes
on Wednesday, March 2, 2022.**

(Includes light breakfast)

Register Online:

**[www.MFGsolutions.org/
training-calendar](http://www.MFGsolutions.org/training-calendar)**

Instructor(s): Ken Walsh

**AEDC-MS: The Source For
Strengthening Arkansas
Manufacturing Through:**

- Growth & Innovation
- Operational Excellence
- Sustainability and
- Leadership
Development



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INC

MANUFACTURING SOLUTIONS

Accelerate. Transform. Win.

2-day Fundamentals of Commercial HVAC Systems

This **2-day introductory course** will address the basic operation, maintenance, and troubleshooting of air conditioning and refrigeration systems.

Participants Will Learn About:

- Industry standards, codes, laws and other best practices
- Physical and thermodynamic properties of gas-vapor mixtures
- Load sizing, heating and cooling, and energy modeling
- Air systems, duct sizing and types of air handling equipment
- Refrigeration systems and components

Who Should Participate?

End users, maintenance staff, operations, plant managers, engineers, distributors, manufacturers, vendors, electricians, and others.

Attendance is limited due to COVID-19; social distancing precautions will be followed within the classroom to provide a safe training environment for instructors and attendees.

About the Instructor: Bruce McDaniel

Bruce has over 25 years of experience as an instructor with training and work experience in Air Conditioning and Chillers, Boiler and Steam Systems Operations, as well as Sales, Engineering and Auditing experience. Bruce has owned multiple supply, repair, and service companies, has served as an independent consultant, expert witness and previously worked in Colorado as an Associate Professor.

Bruce is currently the owner of Versa Tech Training, LLC and serves as their primary resource in the world of industrial maintenance, safety, and efficiency.

This training is funded and subsidized for Arkansas companies by:



Tuesday and Wednesday

April 12 & 13, 2022

8:30 a.m. – 4:30 p.m.

ASU-Newport

Workforce Training Center

5501 Krueger Drive

Jonesboro, AR 72401

Cost: \$175 in-state,

Add \$350, non-Arkansas residents (lunch included)

Register Online:

www.mfgsolutions.org

**Instruction presented by
VersaTech Training LLC**

**AEDC-MS: The Source for
Strengthening Arkansas
Manufacturing Through:**

- **Growth & Innovation**
- **Operational Excellence**
- **Sustainability and**
- **Leadership Development**

(cost includes lunch)

***credit for 14 PDH's**

Register by March 31



ARKANSAS
INC

MANUFACTURING SOLUTIONS

Accelerate. Transform. Win.

Introduction to Pump Systems Operations

Does your organization want to identify energy savings opportunities and improve pump system efficiencies while reducing energy and operating costs?

Training Topics include:

- Why efficient pump systems are important
- Pump and impeller designs and applications
- Basic pump system interaction, including installation and sealing methods
- Screening pump systems and operating curves
- Centrifugal pump troubleshooting and repairs
- How to avoid pump failures with defined maintenance and best practices

About the Instructor: **Bruce McDaniel**

Bruce has over 25 years of experience as an instructor with training and work experience in Air Conditioning and Chillers, Boiler and Steam Systems Operations, as well as Sales, Engineering and Auditing experience. Bruce has owned multiple supply, repair, and service companies, has served as an independent consultant, expert witness and previously worked in Colorado as an Associate Professor.

Bruce is currently the owner of Versa Tech Training, LLC and serves as their primary resource in the world of industrial maintenance, safety, and efficiency.

This training is funded and subsidized for Arkansas companies by:



**Thursday, April 14, 2022
8:30 a.m. – 4:30 p.m.**

**ASU-Newport
Workforce Training Center
5501 Krueger Drive
Jonesboro, AR 72401**

**Cost: \$40 in-state,
Add \$135 for non-Arkansas
residents (*lunch included*)**

**Register Online:
www.MFGsolutions.org
Instruction by VersaTech
Training LLC**

**AEDC-MS: The Source for
Strengthening Arkansas
Manufacturing Through:**

- Growth & Innovation
- Operational Excellence
- Sustainability and
- Leadership Development

(*cost includes lunch*)

***credit for six (6) PDH's**

**Registration closes on
Thursday, March 31, 2022**



What is the certificate?

Earning the Building Science Principles (BSP) Certificate of Knowledge proves that you have basic knowledge of building science. Building science demonstrates how various components of a home interact to affect the home's overall performance.

The BSP Reference Guide, available in both English and Spanish, teaches you some of the widely-used industry terminology and concepts related to building science.

Understanding the relationships between the building envelope, heating, AC, insulation, mechanical ventilation, and other systems of the home will help you understand how these systems affect the comfort, health, and safety of its occupants.

You can study the guide and then challenge the online exam from your computer to earn the BSP certificate.

To learn more about the BSP, please visit bpi.org/certificate or email bsp@bpi.org.

“This guide is easily readable and well-illustrated: a powerful resource for filling in gaps in building science knowledge.”

-Daniel Lea, Cellulose Insulation Manufacturers Association

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Founded in 1993, the Building Performance Institute (BPI) is the nation's premier certification and standard-setting organization for home performance professionals.

BPI is a 501(c)(3) nonprofit organization accredited by the American National Standards Institute, Inc. (ANSI) as a developer of American National Standards and as a certifying body for personnel credentials. BPI develops the technical standards for home energy audits and for energy efficiency, health, and safety improvements.

From these standards, BPI develops rigorous online and field exams for BPI's professional certifications.

bpi.org
info@bpi.org

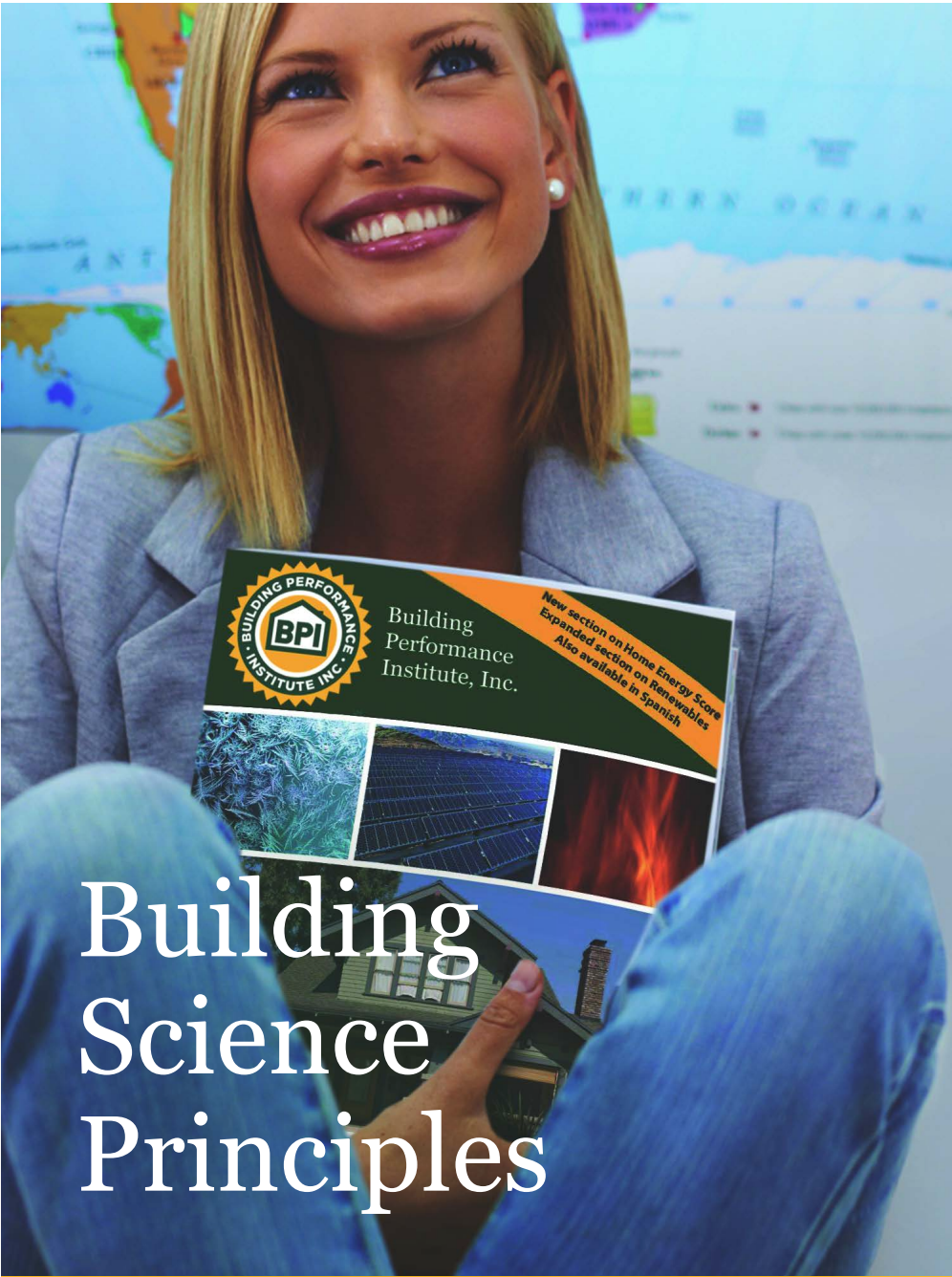
Building Performance Institute, Inc.
107 Hermes Road, Suite 210
Malta, NY 12020

Phone: (518) 899-2727
Toll-Free: (877) BPI-1BPI
Fax: (518) 899-1622



The symbol of excellence for home performance contractors

SM



Building Science Principles

The Building Science Principles certificate is your first step into the world of home performance.

bpi.org



SM

The BSP certificate proves your basic knowledge of building science.

Please note: The BSP certificate is not a professional certification. To learn more about BPI certifications, visit bpi.org/certification.



WHO SHOULD GET THE CERTIFICATE



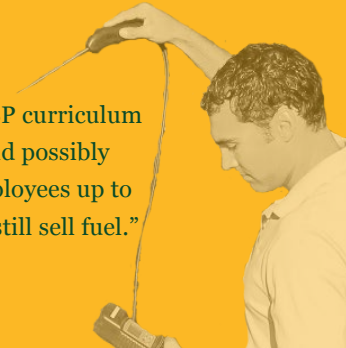
Who should get this certificate?

- The Building Science Principles (BSP) Certificate of Knowledge is designed for a variety of audiences, including:
- Remodelers and home improvement contractors
 - Insulation, HVAC, and window installers
 - Employees of contracting companies
 - Community college students interested in a career in the building trades
 - Vocational or technical trade students
 - Secondary school students interested in environmental sustainability
 - Realtors
 - Energy-related product manufacturers and their distributors
 - Sales representatives
 - Homeowners and renters

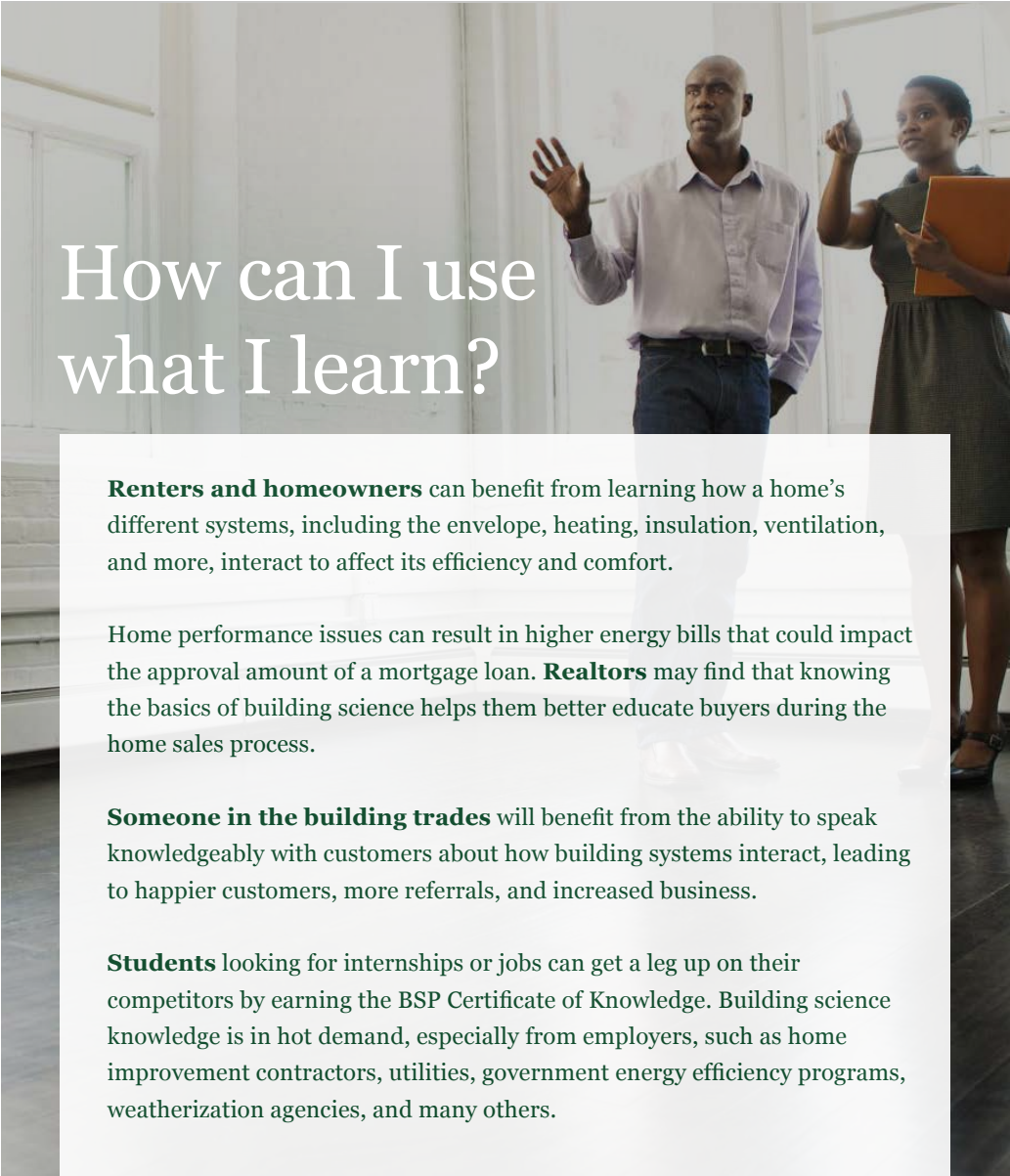
Case Study: Home Performance Contractor

BantamWesson is an HVAC and energy efficiency company. 85% of their staff obtained the Building Science Principles (BSP) Certificate of Knowledge.

“The BSP curriculum enlightened our customer service representatives, our sales people, our oil delivery guys, and senior management on how understanding the house as a system can help each and every conversation they have with our customers. Although our HVAC technicians are already knowledgeable on this, the BSP curriculum helped them to convey concepts to the homeowner and possibly upsell our other services. The BSP helped get our employees up to speed on why we offer energy efficiency services and still sell fuel.”



VALUE OF THE CERTIFICATE



How can I use what I learn?

Renters and homeowners can benefit from learning how a home’s different systems, including the envelope, heating, insulation, ventilation, and more, interact to affect its efficiency and comfort.

Home performance issues can result in higher energy bills that could impact the approval amount of a mortgage loan. **Realtors** may find that knowing the basics of building science helps them better educate buyers during the home sales process.

Someone in the building trades will benefit from the ability to speak knowledgeably with customers about how building systems interact, leading to happier customers, more referrals, and increased business.

Students looking for internships or jobs can get a leg up on their competitors by earning the BSP Certificate of Knowledge. Building science knowledge is in hot demand, especially from employers, such as home improvement contractors, utilities, government energy efficiency programs, weatherization agencies, and many others.

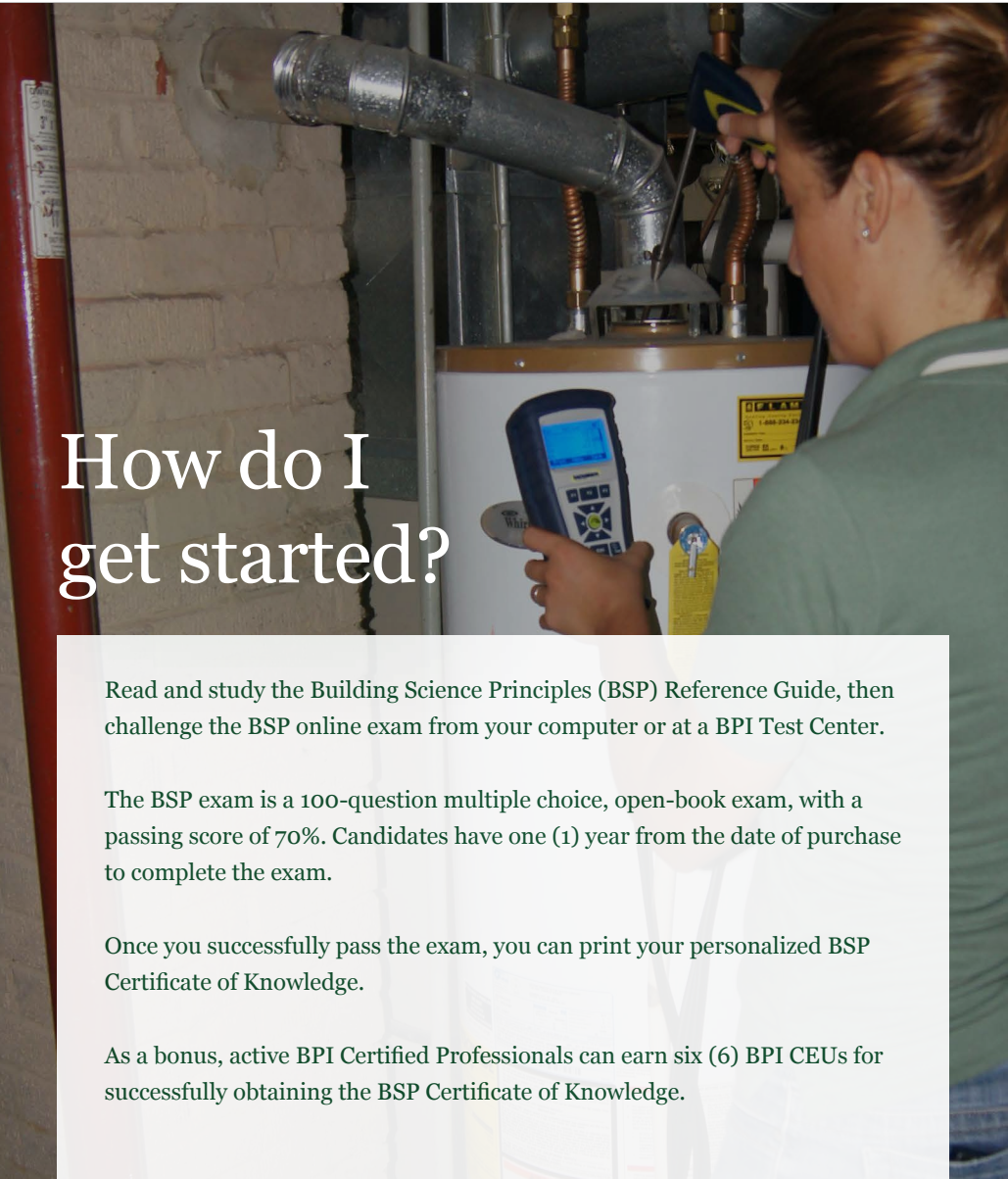
Case Study: High School Workforce Development

The **Green STEP program**, an **Energize Connecticut** collaborative, prepares Connecticut technical high school students for green industry jobs. So far, **over 110 students** and **144 construction and science teachers** have obtained the Building Science Principles (BSP) Certificate of Knowledge.

“The BSP lays the foundation for building science education. The BSP training course empowers anyone who takes it to talk intelligently about buildings, areas of concern that need weatherization, and the immediate health, safety, and performance benefits that come from building correctly and addressing problems. High school students that obtain the Certificate of Knowledge increase the value of their future employment.”



GETTING STARTED



How do I get started?

Read and study the Building Science Principles (BSP) Reference Guide, then challenge the BSP online exam from your computer or at a BPI Test Center.

The BSP exam is a 100-question multiple choice, open-book exam, with a passing score of 70%. Candidates have one (1) year from the date of purchase to complete the exam.

Once you successfully pass the exam, you can print your personalized BSP Certificate of Knowledge.

As a bonus, active BPI Certified Professionals can earn six (6) BPI CEUs for successfully obtaining the BSP Certificate of Knowledge.

Case Study: Technical Institute

The **Wichita Technical Institute (WTI)** HVAC/R program provides the training students need to begin successful careers in the field. WTI offers Building Science Principles (BSP) training to HVAC students as a way of incorporating house-as-a-system concepts into the overall program. At the end of the training, students take the exam to obtain the accompanying BSP Certificate of Knowledge.

“The Building Science Principles exam has been perfect for HVAC/R students at WTI. The study material is current and well-written, and the knowledge the students walk away with is invaluable.”

