

CLARK COUNTY LIBRARY PATRONS BENEFIT FROM EEA PRESENTATIONS

A wise man once said, “Knowledge is of no value unless you put it into practice.” Almost certainly this is in the back of the mind of Energy Efficiency Arkansas (EEA) Facilitator John Fetherston every time he makes an EEA presentation. According to Fetherston, his goal is to give audience members the information they need so they can put their knowledge into practice. Fetherston recently had just such an opportunity when a couple of first time homeowners were in the audience of his March 3, 2022, presentation at the Clark County Library. Library Director Betsy Fisher said, “They were excited to learn how to make their new houses more energy efficient. These patrons asked lots of questions and John never ran out of answers.”

Fisher said that when Fetherston reached out to her, they decided to take advantage of Zoom for his first presentation. She said, “After attending the first program, I knew I wanted to offer it again, once we could do it in person. During the presentation, we learned about several energy programs we were unaware existed. We now are able to point people in the direction of them when they come in looking for help.” Fisher indicated that they will definitely host Fetherston again. She said, “We are excited to have John back. His program was fun and engaging and appealed to a broad range of library users. After his most recent visit, we talked about John presenting at our branch library and the possibility of presenting to different age groups.”



UPCOMING EVENTS		
DATE	EVENT	CITY
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 6	Boys & Girls Club of McGehee	McGehee
APRIL 8-9	Cabot Home Improvement Expo ‘22	Cabot
APRIL 13	Mary I. Wold Cleburne County Library	Heber Springs
APRIL 21	Alzheimer Public Library	Alzheimer
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 15	Pine Bluff Public Library	Pine Bluff
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

RECENT EVENTS			
DATE	EVENT	INSTRUCTOR	CITY
FEB. 28	SE Arkansas Regional Library	John Fetherston	Lake Village
MARCH 3	Clark County Library	John Fetherston	Arkadelphia
MARCH 7	Grant County Library	John Fetherston	Sheridan
MARCH 9	AEHC Spring Education Workshop	John Fetherston	Little Rock
MARCH 10	Watson Chapel Public Library	John Fetherston	Pine Bluff
MARCH 11	Benton Home Improvement Expo ‘22	John Fetherston	Benton
MARCH 14	T.C. Vaughan Senior Center	John Fetherston	Morrilton
MARCH 15	Crossett Public Library	John Fetherston	Crossett
MARCH 18	Conway Home Improvement Expo ‘22	John Fetherston	Conway
MARCH 25	Sherwood Home Improvement Expo ‘22	John Fetherston	Sherwood
MARCH 26	2022 Arkansas Municipal League Hybrid Winter Conference	John Fetherston	Little Rock

UPCOMING TRAININGS		
DATE	EVENT	CITY
MARCH 29	Quality Installation (Residential Commissioning)—National Park	Hot Springs
APRIL 4	Quality Installation (Residential Commissioning)—NWACC	Bentonville
APRIL 6	Quality Installation (Residential Commissioning)—NWTI	Springdale
APRIL 7	Quality Installation (Residential Commissioning)—UAPTC	North Little Rock
APRIL 12	Fundamentals of Commercial HVAC Systems—ASU-Newport	Jonesboro
APRIL 12	Quality Installation (Residential Commissioning)—U of A Hope-Texarkana	Hope
APRIL 14	Introduction to Pump Systems Operations—ASU-Newport	Jonesboro
DEC. 31	Building Science Principles online course and exam	Online

RECENT TRAININGS			
DATE	EVENT	INSTRUCTOR	CITY
MARCH 3	Quality Installation (Residential Commissioning)—SAU Tech	Roland Walters	East Camden
MARCH 9	Cost Savings with Variable Frequency Drives—National Park	Ken Walsh	Hot Springs
MARCH 10	Quality Installation (Residential Commissioning)—Arkansas Tech-Ozark	Kenny Beeler	Ozark
MARCH 21	Quality Installation (Residential Commissioning)—EACC	Robert Jackson	Forest City
MARCH 22	Quality Installation (Residential Commissioning)—North Ark	Jeff Smith	Harrison
MARCH 23	Quality Installation (Residential Commissioning)—ASU-Searcy	Brad Cooper	Searcy
MARCH 24	Quality Installation (Residential Commissioning)—ASU-Marked Tree	Mark Constant	Marked Tree

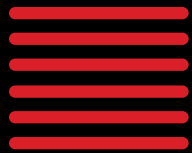
If you know of an individual, program, or organization that has received recognition in the energy efficiency field, please let us know so we can highlight their achievement.



FOR MORE INFORMATION, CONTACT:

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Energy Efficiency Arkansas and Arkansas Association of Energy Engineers (AAEE) Present: Arkansas Energy Management Training Program

Benchmarking, Efficiency, and Emissions Reductions Webinar 3-pt series

Dates: March 29th, April 5th and 12th, 2022 Time: 9am-11am

Webinar Series

Fee

No Charge for Members
EEA subsidized

Instructor

Clint Christenson

Continuing Education

2 Prof Development Hours
per Webinar

Time

9am-11am CT

Location

Zoom Webinar
Links & Registration
On ArkansasAEE.org

For more information:
501-907-0452

Presented by:
Arkansas Chapter



The Association
of Energy Engineers

Learning Objectives

- Advantage of Building Benchmarking
- Bills & Baselines
- Equipment Schedules & Load Profiles
- System Performance Monitoring
- Implementation & Reporting

Registration Details

Please register at: <http://arkansasaee.org/>

For more information, email: energy_education@ArkansasAEE.org

Zoom Links

March 29: <https://us02web.zoom.us/j/84142023375pwd=cHIKZzNQdGRYcW5KZS85STBCUDhnUT09>

April 5: <https://us02web.zoom.us/j/87935225564?pwd=cGkvTVQ3N3VQRlJ0NzMydUIrT3N5Zz09>

April 12: <https://us02web.zoom.us/j/82384103529?pwd=dERuYmx0OHFZMmdDcFFqTWgrYm1Qdz09>

Energy Efficiency Arkansas Sponsored

Energy Efficiency Arkansas (EEA) is a partnership between the Arkansas Department of Environmental Quality's Energy Office and Arkansas's investor-owned electric and gas utilities and electric cooperatives through a ratepayer-funded program approved by the AR Public Service Commission.

ENERGY EFFICIENCY
ARKANSAS



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**



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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

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Boiler Systems Operations, Maintenance & Safety

This is a **two-day training event** that will cover basic boiler maintenance and safety as well as troubleshooting boiler systems. It is appropriate for both the novice technician and the experienced engineer in need of a refresher.

Training will focus on boiler basics, systems components, and controls as well as industry codes, standards, and best practices.

This training is designed to help maximize safety, dependability, and efficiency, thus extending boiler life, improving boiler efficiency, saving energy costs for the employer, and establishing a culture of safe work practices among the employees.

Attendance may be 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 training and work experience in Boiler and Steam Systems Operations, Air Conditioning and Chillers, 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 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

May 10 & 11, 2022

8:30 a.m. – 4:30 p.m.

ASU-Newport

Workforce Training Center

**5501 Krueger Drive
Jonesboro, AR 72401**

Cost: \$175 in-state,

**\$350 additional for non-
Arkansas residents
(lunch included)**

Register Online:

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

**Instruction by VersaTech
Training LLC**

**AEDC-MS: The Source For
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- **Sustainability and**
- **Leadership
Development**

(cost includes lunch)



MANUFACTURING SOLUTIONS
Accelerate. Transform. Win.

Fundamentals of Compressed Air Training

This one-day introductory course is designed to teach facility engineers, operators and maintenance staff how to achieve 15-25% cost savings through more effective production and use of compressed air. The instructor will identify basic approaches for cutting costs; identify steps for proper system operation, maintenance, and point-of-use accountability; and show you how to tailor a compressed air system management action plan for your plant. This course is also a highly recommended prerequisite to the two-day Level 2-Advanced Management of Compressed Air to be scheduled in Arkansas later this year, TBA. **Registration for this class closes May 2, 2022.**

This class is underwritten for Arkansas residents and sponsored by Energy Efficiency Arkansas.

Attendance (at this time) we be limited due to COVID-19; social distancing and sanitary precautions will be followed with in the classroom to provide a safe training environment for instructors and attendees.

Participants will Learn to:

- Calculate the energy cost of compressed air in their facility
- Improve compressed air system efficiency and reliability
- Identify inappropriate uses of compressed air
- Establish a baseline by which improvements in compressed air performance and efficiency can be measured
- Match system supply to actual production requirements for pressure and flow
- Find and repair leaks while establishing a leak prevention program
- Better control compressed air to improve productivity and profitability

Who Should Participate?

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

Attendees earn credit for six (6) hours of attendance for this training



When/Where:

Tuesday, May 17, 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 \$235 for non-Arkansas residents (lunch included)

Register Online:

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

Instructor: Frank Moskowitz

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

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- **Operational Excellence**
- **Sustainability and**
- **Leadership Development**

(cost includes lunch)

OVERVIEW



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.

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.



“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

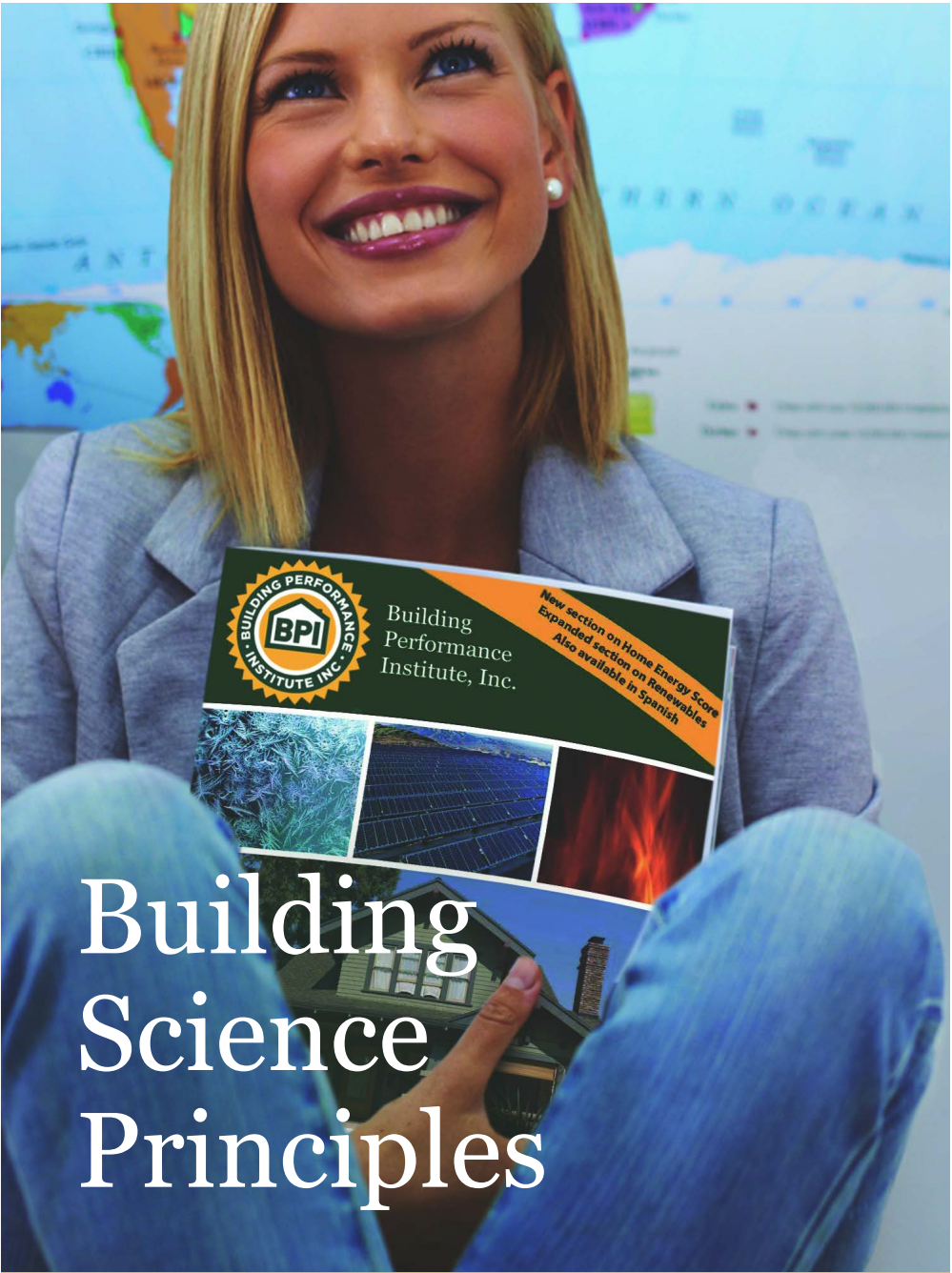
Building Performance Institute, Inc.
107 Hermes Road, Suite 210
Malta, NY 12020

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



The symbol of excellence for home performance contractors

CERTIFICATE OF KNOWLEDGE



Building Science Principles

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

bpi.org



WHO SHOULD GET THE CERTIFICATE



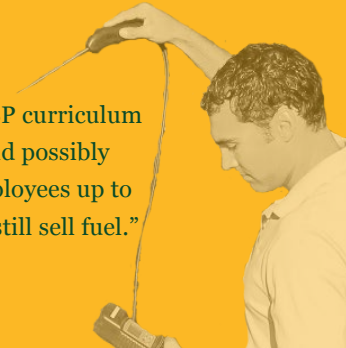
Who should get this certificate?

- 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

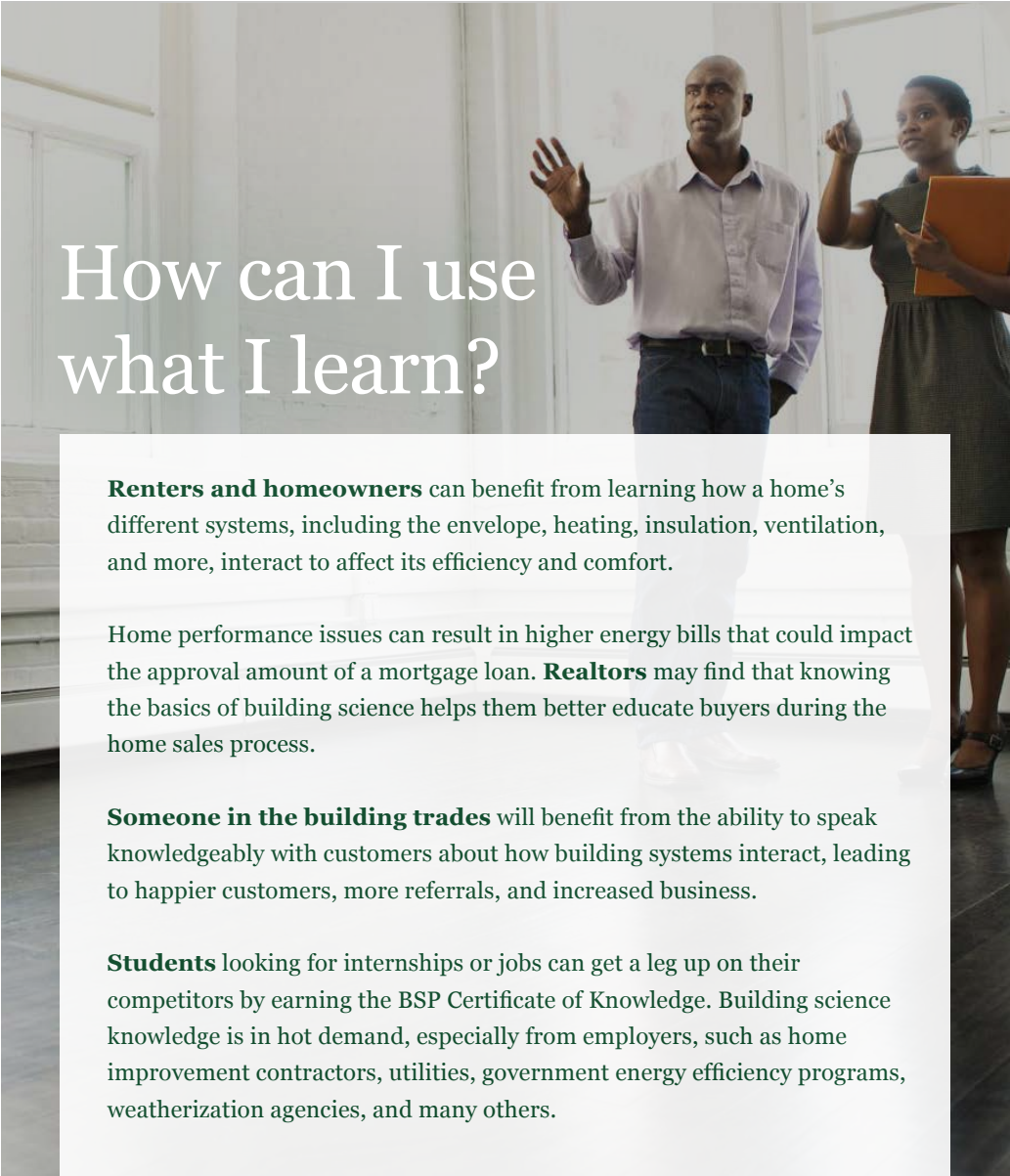
Case Study: Home Performance Contractor

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.

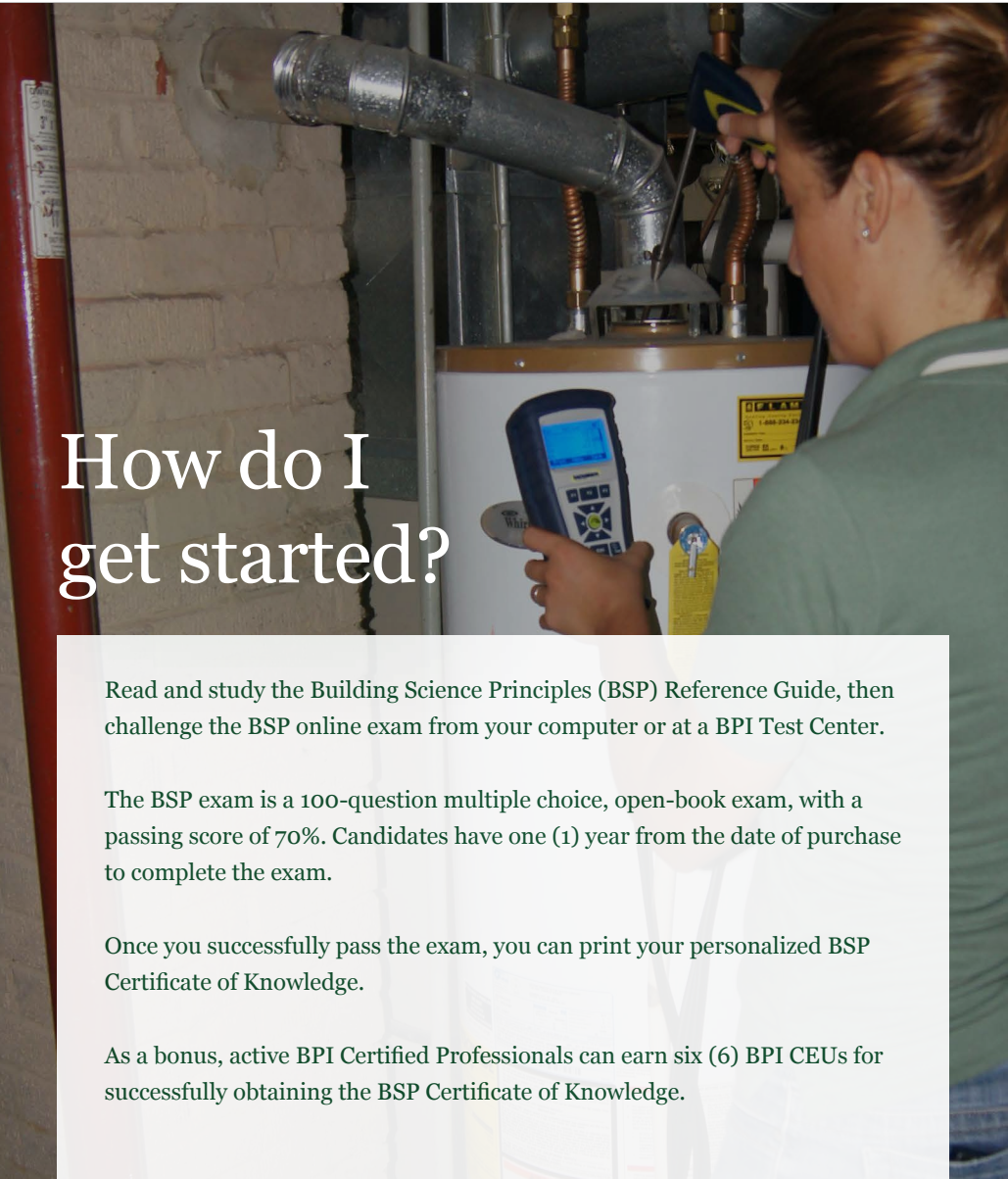
Case Study: High School Workforce Development

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.”

