ENERGY EFFICIENCY ARKANSAS

MONTHLY BULLETIN

OCTOBER 2021



GREG PERKINS COORDINATOR SWEPCO ENERGY EFFICIENCY & CONSUMER PROGRAM

SWEPCO RECOMMENDATIONS INCREASE COMFORT & EFFICIENCY

As the Arkansas Energy Efficiency & Consumer Program Coordinator for Southwestern Electric Power Company (SWEPCO), Greg Perkins manages SWEPCO's commercial and industrial energy efficiency programs in Arkansas. His work with customers of all sizes gives him the opportunity to see various needs and opens the door to recommending more efficient technology–e.g., to switch from standard heating and cooling systems to Variable Refrigerant Flow (VRF) systems.

VRF systems use heat pumps to provide space heating and cooling to buildings in either retrofit or new construction applications. These systems are capable of serving multiple zones in a building, each with different heating and cooling requirements. Occupants have the ability to customize zone temperature settings, thereby increasing individual comfort. VRF HVAC systems typically are 30 percent more efficient than standard systems. Increased efficiencies are gained through better part-load efficiencies, heat recovery, smaller zones, and reduced duct losses. SWEPCO offers incentives for HVAC upgrades based on energy savings. For more SWEPCO energy efficiency program information, visit www.swepcosavings.com.

| UPCOMING EVENTS | | | |
|-----------------|---|---------------|--|
| DATE | EVENT | CITY | |
| OCT. 25 | Van Buren County Public Library | Clinton | |
| OCT. 26 | Pope County Senior Activity Center | Russellville | |
| OCT. 27 | Bob Herzfeld Memorial Library– ZOOM ONLY | Benton | |
| OCT. 29 | Pike County Public Library | Murfreesboro | |
| NOV. 1 | Elkins Senior Activity & Wellness Center | Elkins | |
| NOV. 2 | Malvern Hot Spring County Library | Malvern | |
| NOV. 5 | Madison County Senior Activity Center | Huntsville | |
| NOV. 8 | Alma Public Library | Alma | |
| NOV. 8 | Ralf D. Graf Library of Mulberry | Mulberry | |
| NOV. 9 | Stone County Library | Mountain View | |
| NOV. 10 | Hempstead County Library | Норе | |
| NOV. 15 | Woodruff County Library | Augusta | |
| NOV. 16 | Marion County Senior Activity & Wellness Center | Flippin | |
| NOV. 22 | Boone County Senior Center | Harrison | |
| NOV. 30 | Calhoun County Library | Hampton | |
| DEC. 1 | Lawrence County Library | Walnut Ridge | |
| | | | |

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.

RECENT EVENTS

UPCOMING TRAININGS

DATE

EVENT

| DATE | EVENT | INSTRUCTOR | CITY |
|----------|--|-----------------|---------------|
| SEPT. 14 | Scott County Library | John Fetherston | Waldron |
| SEPT. 14 | Sebastian County Library | John Fetherston | Greenwood |
| SEPT. 20 | Randolph County Library–Public | John Fetherston | Pocahontas |
| SEPT. 20 | Randolph County Library–Staff | John Fetherston | Pocahontas |
| SEPT. 30 | Pine Bluff Public Library | John Fetherston | Pine Bluff |
| OCT. 5 | Dallas County Library | John Fetherston | Fordyce |
| OCT. 6 | Lawrence County Library– ZOOM | John Fetherston | Walnut Ridge |
| OCT. 7 | Central Arkansas Library System- ZOOM | John Fetherston | Little Rock |
| OCT. 12 | Paris Senior Activity Center | John Fetherston | Paris |
| OCT. 13 | Craighead County Jonesboro Public Library | John Fetherston | Jonesboro |
| OCT. 14 | Lawrence County Library–Staff | John Fetherston | Walnut Ridge |
| OCT. 18 | Adolphine Fletcher Terry Library– ZOOM ONLY | John Fetherston | Little Rock |
| OCT. 20 | Cleburne County Library | John Fetherston | Heber Springs |
| OCT. 21 | Springdale Senior Center | John Fetherston | Springdale |



ENVIRONMENTAL QUALITY

| OCT. 25 | Duct Blaster & Blower Door Training | Little Rock | GOALITT | |
|---|--|---|---|--|
| OCT. 26 | Introduction to Pump Systems Operations | Jonesboro | FOR MORE INFORMATION, CONTACT: | |
| OCT. 27-28 | 2-Day Fundamentals of Commercial HVAC Systems | Jonesboro | | |
| NOV. 1 | Duct Blaster & Blower Door Training | Fort Smith | RYAN BURRIS | |
| NOV. 4 | Duct Blaster & Blower Door Training | Camden | 501.682.0976 | |
| NOV. 11 | Duct Blaster & Blower Door Training | Springdale | ryan.burris@adeq.state.ar.us | |
| NOV. 11 | Duct Blaster & Blower Door Training | Texarkana | JOHN FETHERSTON | |
| DEC. 2 | Duct Blaster & Blower Door Training | Harrison | 501.682.2287 | |
| DEC. 9 | Duct Blaster & Blower Door Training | Forrest City | john.fetherston@adeq.state.ar.us | |
| ONGOING | Building Science Principles online course & exam | Online | | |
| RECENT TRAININGS | | | | |
| RECENT T | RAININGS | | | |
| RECENT T DATE | RAININGS EVENT | INSTRUCTOR | CITY | |
| RECENT T DATE AUG. 24 | RAININGS EVENT Building Operator Certification | INSTRUCTOR Clint Christenson | CITY Online | |
| RECENT T DATE AUG. 24 SEPT. 7 | RAININGS EVENT Building Operator Certification Using, Saving, & Managing Energy with (W/WW) Treatment | INSTRUCTOR Clint Christenson Mike Stowe | CITY Online Webinar | |
| RECENT T DATE AUG. 24 SEPT. 7 OCT. 11 | RAININGS EVENT Building Operator Certification Using, Saving, & Managing Energy with (W/WW) Treatment Introducing the Building Energy Professional Certification | INSTRUCTOR Clint Christenson Mike Stowe Mark Roche | CITY Online Webinar Little Rock | |
| RECENT T DATE AUG. 24 SEPT. 7 OCT. 11 OCT. 11 | EVENT Building Operator Certification Using, Saving, & Managing Energy with (W/WW) Treatment Introducing the Building Energy Professional Certification Duct Blaster & Blower Door Training | INSTRUCTOR Clint Christenson Mike Stowe Mark Roche Tom Hunt | CITY Online Webinar Little Rock Hot Springs | |
| RECENT T DATE AUG. 24 SEPT. 7 OCT. 11 OCT. 11 OCT. 12 | EVENT Building Operator Certification Using, Saving, & Managing Energy with (W/WW) Treatment Introducing the Building Energy Professional Certification Duct Blaster & Blower Door Training Fundamentals of Compressed Air Training | INSTRUCTOR Clint Christenson Mike Stowe Mark Roche Tom Hunt Frank Moskowitz | CITY Online Webinar Little Rock Hot Springs Fayetteville | |
| RECENT T DATE AUG. 24 SEPT. 7 OCT. 11 OCT. 11 OCT. 12 OCT. 13-14 | EVENT Building Operator Certification Using, Saving, & Managing Energy with (W/WW) Treatment Introducing the Building Energy Professional Certification Duct Blaster & Blower Door Training Fundamentals of Compressed Air Training 2-Day Advanced Management of Compressed Air Training | INSTRUCTOR Clint Christenson Mike Stowe Mark Roche Tom Hunt Frank Moskowitz Eric Bessey | CITYOnlineWebinarLittle RockHot SpringsFayettevilleFayetteville | |

CITY

hat 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.



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

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



bpi.org

CERTIFICATE OF KNOWLEDGE



Building Science Principles

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



WHO SHOULD GET THE CERTIFICATE

VALUE OF 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."

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."



Once you successfully pass the exam, you can print your personalized 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.

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.

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



AVE ENERGY & MONEY TOMORROW

COURSE SERIES BEGINS AUGUST 24, 2021

SPECIAL OFFER FOR AR RESIDENTS AND EMPLOYEES

The Arkansas Energy Office is pleased to offer the Building Operator Certification course virtually (via Zoom) at a **great discount**. Course Fee is highly discounted and covers the Course Materials + S&H fee. This course is perfect for facilities personnel at Schools, Colleges, Healthcare, Municipalities, State Agencies, and other institutions. Take advantage of this offer by registering today at ArkansasAEE.org.

Building Operator Certification (BOC[®]) helps building engineers, maintenance supervisors and others in the skilled trades advance their skills and careers in energy efficient operation of commercial buildings. Since 1996 BOC has equipped building operators with the know-how to reduce building-related energy consumption and occupant comfort complaints.

Participants will gain essential skills through hands-on training and receive a professional credential in energy efficient building maintenance. BOC training includes documentation of building equipment, systems and controls; benchmarking a building's performance; updating occupancy profiles; reviewing HVAC systems and operation; and mapping a facility's electrical distribution system.

BOC Level I is designed for operators with two or more years of experience in building operation and maintenance who wish to broaden their knowledge of the total building system. Completion of Level I requires a time commitment of 74 hours which includes seven classes, work-site projects, and open-book tests.

BOC LEVEL I SCHEDULE

| All classes are held from 9:00am to 12:00pm on Zoom across 2 days. | | | |
|--|-------------------|--|--|
| BOC 1001-A/Energy Efficient Operation of Building HVAC Systems | 8/24-25/2021 | | |
| BOC 1001-B / Energy Efficient Operation of Building HVAC Systems | 8/26-27/2021 | | |
| BOC 1002 / Measuring and Benchmarking Energy Performance | 9/ 1-2/ 2021 | | |
| BOC 1003/Efficient Lighting Fundamentals | 9/ 15-16/ 2021 | | |
| BOC 1004/HVAC Controls Fundamentals | 10/ 6-7/ 2021 | | |
| BOC 1005/Indoor Environmental Quality | 10/ 20-21/ 2021 | | |
| BOC 1006 / Common Opportunities for Low-Cost Operational Improver | nent 11/3-4/ 2021 | | |
| BOC 1008/Operation & Maintenance Practices for Sustainable Buildings | 11/ 17-18/ 2021 | | |

PROGRAM COMPLETION REQUIREMENTS

To earn the BOC Training Certificate of Completion (TCOC), eligible participants must successfully complete seven classes and tests, and five project assignments. To become BOC-certified, participants must meet eligibility requirements, register for and pass the BOC Certification Exam.

SPONSOR





COURSE LOCATION

ZOOM; LINK WILL BE SENT UPON REGISTRATION

REGISTRATION FEE

| Standard Course Registration Fee | \$1,595 |
|----------------------------------|---------|
| Arkansas Residents/Employees | \$ 350 |
| Certification Exam Fee | \$ 285 |

REGISTRATION INFORMATION

To register for this BOC series fill out this form completely and submit to Angela Kuli at <u>Energy Education@ArkansasAEE.org</u> prior to Auguest 13, 2021.

LOGISTICS

* All Courses are being recorded and available for viewing post-session.

* Students with schedule conflicts can can miss up to 2 courses at their scheduled time, watch the recording, and take the online exam outside of the normal course time.



BOC ARKANSAS REGISTRATION FORM REGISTRATION DEADLINE: AUGUST 2, 2021

To register for this BOC series fill out this form completely and submit to Angela Kuli at **Energy_Education@ArkansasAEE.org** prior to August 13, 2021.

For Complete Course Descriptions go to: www.theboc.info/h-course-descriptions

| LEVEL I – | |
|--------------------------------|-------|
| Standard Registration Fee\$ | 1,595 |
| Arkansas Residents/Employees\$ | 350 |
| Certification Exam Fee\$ | 285 |



REGISTRANT'S INFORMATION

| Name | | Title | | Gender: 🗌 Male 🗌 Female |
|---------------------|--------|-------------------------|-------|-------------------------|
| | | | | |
| Employer | | | | |
| | | | | |
| Address | | City | State | ZIP |
| | | | | |
| Phone | Mobile | E-mail | | |
| | | | | |
| Supervisor's Name | | Phone | | |
| | | | | |
| Supervisor's E-mail | | Facility Size (sq. ft.) | | |
| | | | | |

UTILITY COMPANY SERVING YOUR FACILITY

| (Check all that apply) | | (Check o |
|-----------------------------------|-----------------------|----------|
| Entergy Arkansas | Southwestern Electric | Colleg |
| Electric Cooperatives of Arkansas | □ Southwestern Energy | Govern |
| 🗌 Arkansas Electric | | Govern |
| Other (describe) | | Govern |

INDUSTRY SECTOR

| | (Check one that applies) | | |
|---|----------------------------|---------------|---------------------|
| с | College/University | Healthcare | □ Military |
| у | □ Government (federal) | ☐ Hospitality | Property Management |
| | □ Government (state) | □ K-12 School | □ Retail |
| | □ Government (city/county) | Manufacturing | |
| | □ Other (describe) | | |

QUESTIONS?

Phone: 1-501-907-0452 / E-mail: Energy_Education@ArkansasAEE.org / Web site: www.BOCArkansas.org

Substitution, Transfer and Cancellation Policy. If you are unable to attend the course for which you have registered, you may substitute another person in your place, or transfer your registration to another date and location without penalty. Visit our BOC Program Website to view a schedule of other dates and locations. No refunds will be provided for registrations canceled within 3 business days of the first course date. A \$150 service charge will be assessed for registrations canceled less than 15 days prior to the first course date. The examination fee is nontransferable but is refundable (minus a \$50 processing fee) if the candidate notifies AHK Consulting of the test cancellation and refund request in writing no later than 14 days prior to the last class date.

Registration fees shown are valid for this course only.