



**AABC**

# 2024 ANNUAL MEETING PROGRAM

Wednesday, October 9 – Friday, October 11

**HYATT LOST PINES  
LOST PINES, TX**





*Quality. Integrity. Independence.*

## **AABC Mission & Vision**

### **Mission:**

AABC establishes industry standards for Total System Balance of building environments, and is the only association that exclusively certifies independent agencies. Members receive certification, technical training, continuing education, marketing, business resources, professional networking, and industry advocacy.

### **Vision:**

AABC members are the trusted Total System Balance providers of choice for every building owner and design professional.

# Welcome to the 2024 Annual Meeting!

## President's Welcome

It is my pleasure to welcome you all to the 59th AABC Annual Meeting on behalf of the entire AABC Board of Directors. We hope you enjoy this opportunity to gather for an exciting technical program and a variety of fun activities at the amazing Hyatt Lost Pines Resort in Lost Pines, Texas. This week, we will hear from some excellent presenters and induct two new members of the AABC Hall of Fame.



**Gaylon Richardson**  
AABC President

Recently, the Board has worked with legal counsel to update the AABC Bylaws. We have approved several proposed revisions that have now been presented to the membership at large for voting. Voting has been ongoing since early September, with two virtual town halls held to address any questions or concerns about the changes. Voting will conclude at the end of the Annual Meeting. Our hope is that these changes will reflect AABC's continued growth and allow us to adapt our governance to best support the organization's membership.

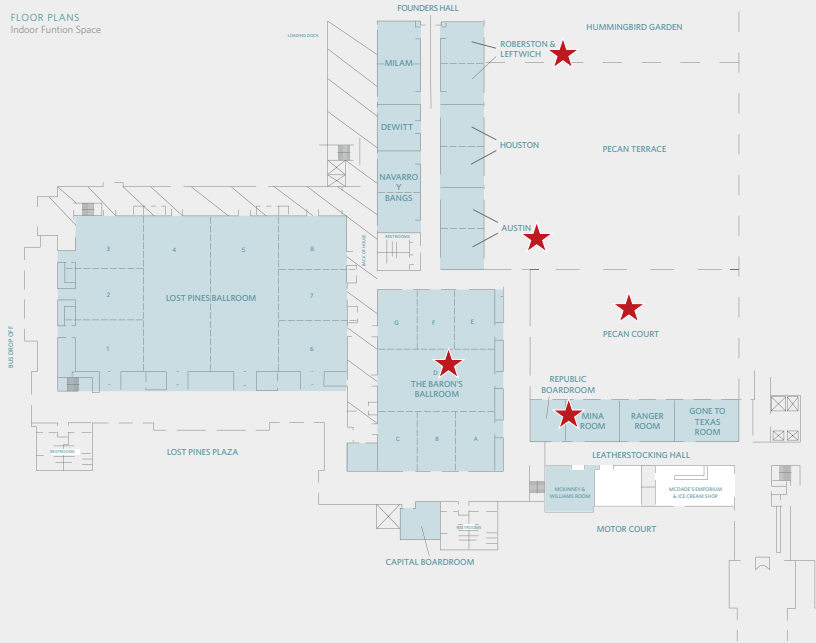
At the last annual meeting, we discussed the development of new initiatives in the area of critical environments. We have now created a division of AABC, named the Critical Environments Certification Council (CECC), to house these programs. Committee members involved in this new endeavor have been hard at work, with a new program certifying individuals to test fume hoods being the farthest along. Materials for the certification will include a new Laboratory Fume Hood Certification Testing Procedure, an exam, and a training manual.

On a personal note, I want to share what an honor it has been to serve on the AABC Board of Directors and as AABC's president for these past few years. Though my tenure on the Board is coming to a close, I am thankful for the opportunity to have worked with each of you, and I hope that we can all continue to work together to help this organization do great things for our profession.

Sincerely,  
Gaylon Richardson, TBE, CxA, F.ASHRAE  
*AABC President*

# Hotel Map

FLOOR PLANS  
Indoor Function Space



## RESORT MAP

### ★ LOBBY

### Amenities

- 1 Bearstrap Game Room
- 2 Bike Corral
- 3 Business Center (Floor M)
- 4 Butterfly Meadow
- 5 Camp Hyatt
- 6 Crossroads
- 7 Colorado River Dock
- ★ 8 Archery & Axe Throwing
- 9 Driving Range & Practice Facility
- 10 Fitness Center
- 11 Hiking Trails Entrance
- 12 Horseshoe & Gorn Hole
- 13 Hummingbird Garden
- 14 Lost Pines Corral
- 15 Playground
- 16 Putting Greens
- 17 Riversong Firepit
- 18 Renegade Trailhead
- 19 Maverick's Firepit
- 20a Walkway to Trap Shooting
- ★ 20b Trap Shooting
- ★ 21 Lost Pines Spa
- 22 Tennis, Pickleball, Basketball Courts
- 23 Towel Corral Recreational Services
- 24 Lost Pines Golf Club
- Crooked River Water Park**
- 25 Water Park Entrance
- 26 Adult Pool
- 27 Lazy River
- Food and Beverage**
- 28 Heartwood House
- 29 McDade's Emporium & Ice Cream Saloon
- 30 Old Buck's Place
- 31 Maverick's Roadhouse
- 32 Stories Ranch Kitchen
- Sushi by Scratch (second floor)
- 33 Scribes Club
- 34 Maude's Bar & Terrace
- 35 Birdies

### Outdoor Event Space

- ★ 36 Amphitheater
- ★ 37 Wildflower Pavilion
- 38 Riverbend Basketball Court
- Feather Court
- ★ 39 LBJ Pavilion
- ★ 40 Pecan Canopy
- ★ 41 Pecan Court
- ★ 42 Pecan Terrace
- ★ 43 The Backyard
- ★ 44 Riversong Lawn
- ★ 45 Shady Grove

### Indoor Event Space

- 47 Austin
- ★ 48 The Baron's Ballroom
- 49 Capital Boardroom
- 50 Dewitt
- ★ 51 Gone to Texas
- 52 Houston
- 53 Lost Pines Grand Ballroom
- 54 McKinney & Williams
- 55 Milam
- 56 Mina
- 57 Navarro Y Bangs
- 58 Ranger
- 59 Republic Boardroom
- 60 Robertson & Leftwich

### Guest Rooms

- 61 South Wing  
1609 - 1922, 2601 - 2922  
3601 - 3710
- 62 North Wing  
1002 - 1424, 2002 - 2424  
3002 - 3424, 4103 - 4424
- 63 Litton House



RESORT MAP





# Table of Contents



<b>Activity Highlights .....</b>	<b>4</b>
<b>Meeting Schedule .....</b>	<b>7</b>
<b>Technical Program .....</b>	<b>10</b>
<b>CEU Deadlines &amp; Information.....</b>	<b>13</b>
<b>Hall of Fame Historical Inductees.....</b>	<b>15</b>
<b>Annual Meeting Sponsors .....</b>	<b>16</b>
<b>AABC Industry Partners.....</b>	<b>18</b>

# Activity Highlights



## Annual Golf Tournament

Wednesday, October 9

8:30 a.m. shotgun start

AABC members and guests compete in this annual scramble-format tournament, this year at the Golf Club on the Hyatt Lost Pines property. Breakfast and drink tickets (included) available for pick-up at the Pro Shop at 7:30 a.m. Last call for the range at 8 a.m.

Rental Clubs - \$85 plus tax  
\$275 per person



## Welcome Reception

Wednesday, October 9

6:30 – 8 p.m.

*Pecan Court & Terrace*

Greet old friends and make new ones at the annual welcome reception. Meet the Lost Pine Longhorn and get your caricature drawn. Enjoy hors d'oeuvres, drinks, great conversation, and more.



## Annual Closing Celebration

Friday, October 11

6 – 10 p.m.

*LBJ Pavilion*

Join us for the final event with a cocktail reception, dinner, and live music from The Nightowls, who performed at the 2019 Annual Meeting! This is a perfect opportunity to relax and celebrate. Use the photo booth to capture memories with friends new and old.

## Activity Highlights



### Tomahawk and Archery

Thursday, October 10

5:30 – 6:30 p.m.

*Ages 12+ only*

*Minimum 5 participants*

*Clothing: Closed-toe shoes required*

Each participant will learn the fundamentals of these time-honored sports from experienced staff and then practice shooting arrows or throwing tomahawks at set targets.



### Trap Shooting

Thursday, October 10

5:30 – 6:30 p.m.

*Ages 12+ only*

*Clothing: Closed-toe shoes required; eye and ear protection will be provided*

Set your sights on a true Texas tradition — trap shooting! A range of shotguns are available to help everyone from novices to experts take out clays from competition-style trap machines.

**Location:** See #8/#20b on resort map.



### AABC Picnic & Outdoor Activities

Thursday, October 10

6 – 7:30 p.m.

*Wildflower Pavilion*

Along with outside yard games, come learn to line dance. Thursday's Picnic includes a dinner buffet with hot dogs, burgers, and chicken sandwiches, along with beer and wine.

\$125 per person for activities and food/drinks

\$100 per person for food/drinks only

\$50 per child for food only

**Questions? Please contact Elizabeth Duggar: [events@aabc.com](mailto:events@aabc.com)**



# Spouse Activities

FREE SPOUSE BREAKFAST: Thursday, October 10 & Friday, October 11  
8 a.m. – 10 a.m. in Robertson & Leftwich Rooms



## Stretch for Your Health

Thursday, October 10

7:30 - 8:30 a.m.

*Spa Lawn*

Start your day off right with a morning stretch session! Decompress, relax, and move your body to get ready for a great day.  
FREE



## Paint & Sip Experience

Thursday, October 10

11 a.m. – 1 p.m.

*Robertson & Leftwich Rooms*

Sip, paint, and unleash your creativity! Enjoy a drink, mingle with friends, and take home your very own masterpiece!  
\$75 for adults, \$35 for kids  
Children ages 4+ are invited.



## Resistance Band Class

Friday, October 11

7:30 - 8:30 a.m.

*Spa Lawn*

Utilizing elastic bands, this class is suitable for all fitness levels and begins with a warm-up to prepare the body, followed by a series of resistance band exercises, and ends with a cool-down and stretching session to enhance flexibility and prevent injury.  
FREE



## Falconry Presentation

Friday, October 11

11 a.m. – noon

*Backyard Lawn*

Get an up close and personal free-flight presentation with an assortment of the most fascinating fliers you will ever see. Falcons, hawks, vultures, ravens, and others are represented in this exciting show.  
\$25 for Adults – kids are free



# Meeting Schedule

## Wednesday, October 9

8 a.m. – 2 p.m.	<b>Annual Golf Tournament</b>	<i>Lost Pines Golf Club</i>
12 – 5 p.m.	<b>Registration</b>	<i>Baron's Ballroom Foyer</i>
6:30 – 8 p.m.	<b>Welcome Reception</b>	<i>Pecan Court &amp; Terrace</i>

## Thursday, October 10

7 – 8 a.m.	<b>Breakfast</b>	<i>Pecan Court</i>
8 – 10 a.m.	<b>Spouse Breakfast</b>	<i>Robertson &amp; Leftwich Rooms</i>
8 – 9:30 a.m.	<b>AABC General Business Session</b>	<i>The Baron's Ballroom</i>

**President's Welcome**  
**Gaylon Richardson, TBE, CxA**  
*Engineered Air Balance Co., Inc*

**ASHRAE Welcome Address**  
**Wade H. Conlan, P.E., CxA, LEED AP**  
*Hanson Professional Services, ASHRAE Vice President*  
**Sarah E. Maston, P.E., LEED AP**  
*Colliers Project Leaders, ASHRAE Treasurer*

**Executive Director's Report**  
**Ray Bert**

**AABC Hall of Fame Inductions**

**Zone 3 VP Election**

9:30 – 9:45 a.m.	<b>Coffee Break</b>
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9:45 – 10:45 a.m.	<b>Relative Humidity Levels in Operating Rooms: The Effect on the Contamination Levels</b> <b>Dr. Jennifer Wagner</b> <i>Onsite, LLC</i>
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# Meeting Schedule

## Thursday, October 10

- 10:45 – 11:40 a.m.      **Sponsor Technology Theater**  
Instruments Direct:                      10:45 – 11:00 a.m.  
Retrotec:                                      11:05 – 11:20 a.m.  
Ameritech Data Solutions      11:25 – 11:40 a.m.
- 12 – 12:45 p.m.              **Lunch**                                      *Pecan Court*
- 12:45 – 1:45 p.m.              **Impact of Pressure on Building Systems Performance**  
**Wade Conlan P.E., CxA, LEED AP**  
*Hanson Professional Services*  
**Sarah E. Maston, P.E., LEED AP**  
*Colliers Project Leaders*
- 2 – 2:45 p.m.                      **Open Wire Electric Heaters –**  
**How They Work and How They Don't**  
**Gus Faris**  
*Nailor*
- 2:45 – 3 p.m.                      **Coffee Break**
- 3 – 4 p.m.                              **Field Leadership & Management:**  
**Making the Transition from TAB Technician**  
**to Supervisor**  
**Justin Garner, P.E., TBE, CxA**  
*Engineered Air Balance Co., Inc.*  
**Stan Spaulding**  
*The Achilles Group*
- 4 – 4:45 p.m.                      **AABC Policies & Procedures and Ethics Presentation**  
**AABC Board Executive Committee**
- 5:30 – 6:30 p.m.                      **Archery and Trap Shooting**
- 6 – 7:30 p.m.                              **AABC Picnic in Wildflower Pavilion**

# Meeting Schedule

## Friday, October 11

7 – 8 a.m.	<b>Breakfast</b>	<i>Pecan Court</i>
8 – 10 a.m.	<b>Spouse Breakfast</b>	<i>Robertson &amp; Leftwich Rooms</i>
8 – 9 a.m.	<b>The Art of the Change Order</b> <b>Jeremy Johnson, TBE, CxA</b> <i>American Testing, Inc.</i> <b>Benjiman “BJ” Link, TBE</b> <i>United Testing &amp; Balancing, Inc</i>	
9 – 9:15 a.m.	<b>Break</b>	
9:15 – 10:15 a.m.	<b>Enhanced Outdoor Airflow Measurement Improves Buildings</b> <b>Josh Renegar</b> <i>EBTRON</i>	
10:15 – 11:15 a.m.	<b>Document Control – Exploring TAB Workflow and Software Solutions</b> <b>David Rodriguez and Matt Little</b> <i>Engineered Air Balance Co., Inc.</i>	
11:15 a.m. – 12 p.m.	<b>Exhibitor Showcase</b> <i>3-minute Exhibitor Presentations &amp; Drawings</i>	
Noon	<b>Adjournment</b>	
6 – 10 p.m.	<b>Annual Closing Reception &amp; Celebration</b>	<i>LBJ Pavilion</i>

## FAQs

- ▶ All technical presentations are approved for AIA LUs.
- ▶ All presentations will be recorded and available by the end of November.
- ▶ Attendees are able to download certificates from the app.
- ▶ CEUs from this meeting will be uploaded to the member portal by the end of October.



# Technical Program



## Relative Humidity Levels in Operating Rooms: The Effect on the Contamination Levels

**Dr. Jennifer Wagner**

*Onsite, LLC*

Ensuring an aseptic airborne environment in the operating room is crucial to reducing microbial and particle contamination during surgery. This study aimed to determine if certain levels of relative humidity (RH) improve the OR air delivery system's effectiveness at clearing contamination from critical zones. Using the Environmental Quality Indicator (EQI) method, we tested RH levels of 20%, 35%, and 50% over three days in two orthopedic ORs. Results showed that RH levels of 35% and 50% were statistically cleaner in terms of microbial contaminants compared to 20%.



## Impact of Pressure on Building Systems Performance

**Wade H. Conlan, P.E., CxA, LEED AP**

*Hanson Professional Services, ASHRAE*

**Sarah E. Maston, P.E., LEED AP**

*Colliers Project Leaders, ASHRAE*

This session is meant to discuss how pressure in duct systems, spaces, buildings, and across components impacts the commissioning process and successes. Duct leakage in new and existing buildings is a potential source of wasted system energy and performance that can be mitigated. Pressure drops across components, such as an existing cooling coil, can greatly reduce the AHU's ability to condition the spaces. This session will discuss different requirements for duct sealing, pressure readings, and overall systems performance in relation to these items.



## Open Wire Electric Heaters – How They Work and How They Don't

**Gus Faris**

*Nailor*

Open wire electric heaters have been used for comfort heating for decades, but their controls have become more sophisticated. These controls manage normal operations and protect against abnormal conditions. This talk will demonstrate how to set and adjust airflows and temperatures to protect structures and occupants while avoiding excessive noise.



# Technical Program



## Field Leadership and Management: Making the Transition from TAB Technician to Supervisor

**Justin Garner, PE, TBE, CxA**  
*Engineered Air Balance Co., Inc.*

**Stan Spaulding**  
*The Achilles Group*



At a previous AABC Annual Meeting, we discussed the career path of TAB professionals and the need to develop new talent. This session will focus on the leadership and management expectations of a TAB field supervisor, covering techniques to develop leadership skills, address project challenges, and outline management skills for scheduling, reporting, and scope definition on TAB projects.



## The Art of the Change Order

**Jeremy Johnson, TBE, CxA**  
*American Testing, Inc.*

**Benjiman "BJ" Link, TBE**  
*United Testing & Balancing, Inc.*

Test and balance businesses rely on efficient manpower to succeed and remain profitable. This presentation will focus on optimizing time management, refining business processes, and addressing lost labor time. We will discuss when to minimize change orders and strategies for successfully writing and securing them.

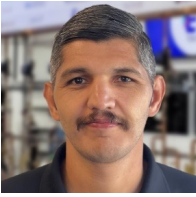


## Enhanced Outdoor Airflow Measurement Improves Buildings

**Josh Renegar**  
*EBTRON*

Management and control of outdoor air is important not only for the building occupants, but for the buildings as well. We will cover industry updates to outside airflow measurement and the factors affecting outside airflow measurement, technology comparisons, and best practices as a TAB professional. It will dive into outdoor airflow rate determination methods and how to improve these strategies. Not all technologies are properly suited for outdoor airflow measurement and all technologies have limitations. This presentation will discuss these issues and the "best practice" approach to measurement, calibration, and verification of outdoor air intake flow rates.

# Technical Program



## Document Control – Exploring TAB Workflow and Software Solutions

**David Rodriguez**  
*Engineered Air Balance Co., Inc.*

**Matt Little**  
*Engineered Air Balance Co., Inc.*



Implementing document control workflows and software solutions can greatly enhance information transfer from project startup to final reporting. This presentation will showcase methods to ensure teams have the most current project documentation, provide an in-depth look at using Bluebeam for consistent takeoffs and robust as-builts, and present Autodesk Construction Cloud workflows that empower teams both on and off the jobsite.

**NEW**

# Download the Official 2024 AABC Annual Meeting App

- ▶ Track & Download CEUs
- ▶ Manage Your Technical & Activities Agendas
- ▶ Download Presentations
- ▶ Message Attendees
- ▶ View Sponsors & Exhibitors



# CEU Deadlines & Information

## ZONE 2

(Central):

**Next Due Date: December 31, 2024**

(60 points for TBEs, 30 points for Techs).

## ZONE 3

(Western + International):

**Next Due Date: December 31, 2025**

(60 points for TBEs, 30 points for Techs).

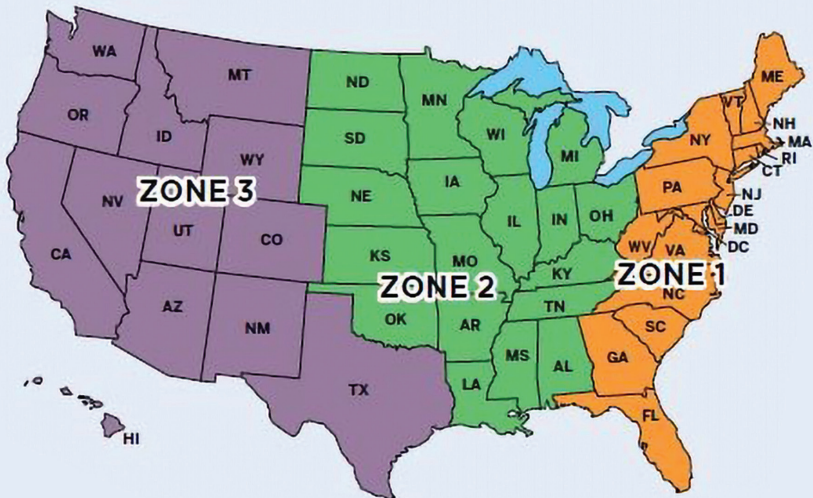
## ZONE 1

(Eastern):

**Next Due Date: December 31, 2026**

(60 points for TBEs, 30 points for Techs).

For reference, the map of the Zones is as follows:



*\*Note: International members will be on the same schedule as Zone 3.*



# 2024 Highlights By the Numbers



**9** webinars resulted in **1,294** registered users

(November through September 2024)



Industry Professionals Earned Over

**4,000** TAB Journal & Webinar **CEU hours**

(Sept.1, 2023-Sept. 1, 2024)



Nearly **3,500** TAB Calculator App downloads ★★★★★



Complete Revision of AABC Bylaws and communication to membership.

Development of **AABC's 60th Anniversary** activities



Management of the **CECC Committees**



**Social Media Marketing**  
AABC LinkedIn Page Followers:

SEPTEMBER 1, 2023: 1,725 followers      AUGUST 30, 2024: 2,117 followers

**22.7% increase!**

Google Analytics  
**User traffic** doubled  
to **7,500** monthly!



Approximately **50%** of user acquisition comes from **organic search**, **referral**, or **social media**.



**99%+**

MEMBERSHIP RENEWALS RATE



**40+** Membership & certification inquiries

from non-members.





# Hall of Fame

*Quality. Integrity. Independence.*

The association established the AABC Hall of Fame in 2021. Intended as the highest honor the association can bestow, it is a formal recognition of those who have given the most to the association and to the testing and balancing industry through extraordinary volunteer service over many years.



**Walter H. Green, TBE**  
*Environmental Test & Balance Co.*



**Charles E. Fant, III, P.E., TBE**  
*Environmental Test & Balance Co.*

AABC launched the first individual certification for testing, adjusting, and balancing, the Test & Balance Engineer (TBE), in 1970. By the mid-1980s, many TBEs were certified, but there was a growing awareness in the then-20-year-old organization that an entry-level TAB certification was needed for the many skilled AABC member employees who did not yet have the 8 years of experience needed to be a TBE. The Board voted to proceed with development in 1985; enter Walt Green and Chuck Fant of Environmental Test & Balance in Memphis, Tennessee.

Friends, business partners, AABC members since 1982 and of course experts in testing, adjusting, and balancing, the two men would spend the next 16 years collaborating on all aspects of the AABC certified technician exam. Development began in 1986 and was completed in 1989, with the first 10 exams administered later that year. As co-custodians, they maintained and updated the test as needed and methodically graded 316 exams by hand from 1989 until 2002, when a new computerized version was created and launched.

That crucial early work on the first technician exam, representing hundreds of hours of volunteer time, still echoes today. AABC's Certified Technician program is still going strong, with more than 550 actively certified and hundreds more who have since gone on to become TBEs.

In addition to their technician certification work, Walt served as Zone 2 Vice President for three years, and both he and Chuck were familiar faces at AABC meetings for decades. It is both deserving and fitting that the two be inducted into the AABC Hall of Fame together.

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# Thank You to Our Industry Partners





Join AABC to celebrate its  
60th anniversary next year!

**SAVE the DATE**



**AABC 60th Anniversary  
Annual Meeting**

**October 22-24, 2025**

**Omni Amelia Island Resort, Florida**





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# solo

Single Channel Manometer

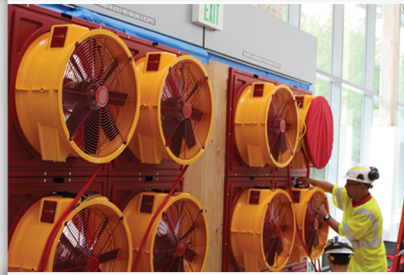
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# Cx ENERGY 2025

CONFERENCE & EXPO  
APRIL 28 - MAY 01, 2025  
CHARLOTTE, NC

## SAVE THE DATE



COMMISSIONING ♦ ENERGY MANAGEMENT ♦ BUILDING TECHNOLOGY

**CxEnergy** is the premier event in commissioning, building technology, and energy management. CxEnergy offers pre-conference TAB & Cx Seminar, plus certification CxA workshop and EMP seminar, 30+ technical presentations with nationally recognized speakers, and an Expo Hall featuring the latest technology in the industry.

### WHO ATTENDS CxENERGY?

- ▶ Commissioning Providers
- ▶ Energy Managers
- ▶ Building Owners & Facility Managers
- ▶ MEP Engineers
- ▶ Building Control & Automation Experts
- ▶ HVAC Testing & Balancing Professionals
- ▶ Building Enclosure Consultants
- ▶ Code Consultants
- ▶ Energy Service Providers
- ▶ Utilities Personnel
- ▶ Government Officials

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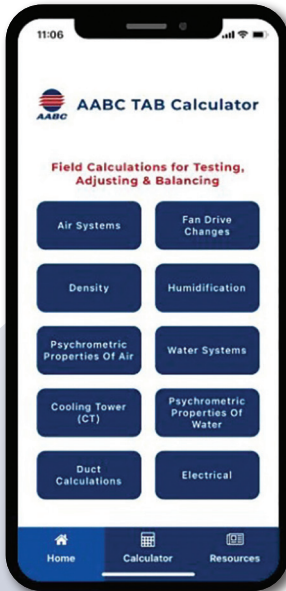
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# FREE TAB CALCULATOR MOBILE APP



## APP FEATURES

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- ▶ Fan Drive Changes
- ▶ Density
- ▶ Humidification
- ▶ Psychrometric Properties of Air
- ▶ Water Systems
- ▶ Cooling Tower (CT)
- ▶ Psychrometric Properties of Water
- ▶ Duct Calculations
- ▶ Electrical







***Quality. Integrity. Independence.***

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