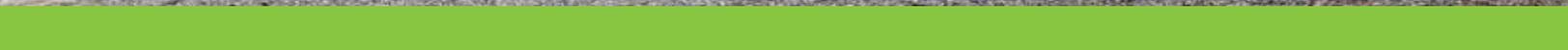




Membership Guide





WELCOME TO THE ASHRAE COMMUNITY

ASHRAE is over 56,000 members strong and growing! Members enjoy learning opportunities, networking, technical resources, and involvement at the Chapter, Regional, and Society level.

The programs, publications, and benefits found in this guidebook exist because our volunteers provide the support and shared knowledge to make it all possible. We encourage you to learn more about the Society and what's available to you as a member.

ashrae.org/myashrae

THIS IS YOUR SOCIETY

Membership Benefits

The benefits of being an ASHRAE member are numerous, and only increase as you engage at the Chapter, Regional and Society level. This guide will help you explore some of the more common ways ASHRAE can serve you. Tangible benefits include:

- A one-year subscription to ASHRAE Journal, and a digital subscription to the quarterly High Performing Buildings (HPB) magazine, and free online access to Science and Technology for the Build Environment (STBE)
- Members and Associates get an updated version of the ASHRAE Handbook (each June)
- Free access to Journal articles, research reports, and Handbook volumes & chapters on ASHRAE Technology Portal
- Free Annual Webcast typically offering 3 PDHs (each April)
- Discounts on publications, standards, courses, and conference registrations

Membership Programs

ASHRAE offers the following programs to ensure everyone can benefit from membership:

- **Young Engineers in ASHRAE (YEA)** provides programs and services specific to the needs of young professionals. All ASHRAE members age 35 and under qualify as YEA members.
- **Developing Economies Membership** program provides a 50% reduction in dues for applicants and renewing members who reside in countries categorized as "Low Income" and "Lower Middle Income" by the World Bank List of Economies statistics.
- **SmartStart** allows Student members an easy, affordable transition to Associate grade membership upon graduation.

ashrae.org/membership





VOLUNTEERS ARE ASHRAE'S FOUNDATION

ASHRAE thrives on the input and experience of professionals in the building technology industry around the world, so we invite you to serve on our technical and standard project committees.

As a technical committee member, you help further ASHRAE's efforts by assisting in planning programs for meetings, writing and reviewing Handbook chapters and assisting in developing research projects to improve equipment and system performance. As a standard project committee member, you help write the Society's standards and guidelines, which establish recommended design and operating practices embraced by the built environment community.

[ashrae.org/volunteer](https://www.ashrae.org/volunteer)



ASHRAE CONFERENCES

ASHRAE conferences feature peer-reviewed papers and non-commercial presentations with hands-on information. Attendees earn professional development hours (PDHs), keep up-to-date on the latest technologies, and network with colleagues.

Annual & Winter Conferences

Attendees can choose from nearly 100 sessions and 600 committee meetings. The AHR Expo is held in conjunction with the ASHRAE Winter Conference.

Annual Conference Dates

Kansas City, MO., Jun. 22–26, 2019

Austin, TX., Jun. 27–July 1, 2020

Winter Conference Dates

Orlando, FL., Feb. 1–5, 2020

Chicago, IL., Jan. 23–27, 2021

Topical Conferences

Topical Conferences are held around the world. With an attendance of 200–300, these conferences provide excellent networking and in-depth coverage of technical topics.

Building Performance Analysis Conference. Denver, CO., Sep. 25–27, 2019

7th International Conference On Energy Research and Development. Kuwait, Nov. 19–21, 2019

Buildings XIV International Conference. Clearwater Beach, FL., Dec. 9–12, 2019

[ashrae.org/conferences](https://www.ashrae.org/conferences)

ASHRAE PUBLICATIONS

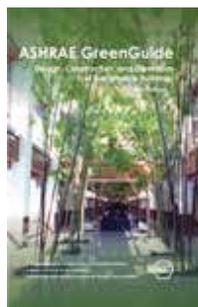
Standard 90.1 – ANSI/ASHRAE/IES Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings. Standard 90.1 is a benchmark for commercial building energy codes in the United States and a key basis for codes and standards around the world for more than 35 years.

2018 International Green Construction Code (IgCC) – A whole system approach to the design, construction and operation of buildings, the IgCC contains measures that result in better indoor environments, lower impact on natural resources, better neighborhood connections, and improved walkability. Its revised format includes ANSI/ASHRAE/USGBC/IES 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*. The IgCC provisions allow the seamless coordination with either the IECC® or ASHRAE Standard 90.1 for ease of adoption in any jurisdiction.

The Commissioning Stakeholders' Guide – Using ASHRAE Guideline 0 and ASHRAE/IES Standard 202, this guide provides concise guidance and step-by-step requirements for new construction commissioning for owners, designers, and project managers. Every facet of the commissioning process is outlined, from project initiation to the final commissioning report.

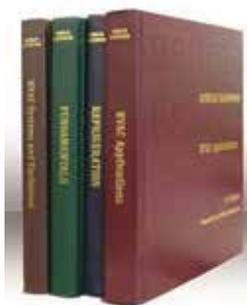
ASHRAE/ASHE Standard 189.3 – This Standard uses ASHRAE/USGBC/IES Standard 189.1 as a basis to address the sustainability of health care facilities. The purpose of the standard is to prescribe procedures, methods, and documentation requirements for the design, construction, and operation of high-performance, sustainable health care facilities.

ASHRAE/ACCA Standard 211 – Defines the procedures required to perform Energy Audit Levels 1, 2, and 3; provides a common scope of work for these audit levels for use by building owners and others; establishes consistent methodology and minimum rigor of analysis required; and establishes minimum reporting requirements for the results of energy audits.



ASHRAE GreenGuide 5th Edition – The essential reference and guide for HVAC&R systems and their role in sustainable building design. This book takes you step by step through the entire building life cycle, from the early stages of a green building design project to construction, operation, maintenance and eventual demolition.

Residential IAQ Guide – This guide addresses single and multifamily dwellings, unrestricted by building size or HVAC system type. It was written by experts in residential IAQ and presents best practices to achieve excellent IAQ. It provides information and tools that residents, home designers, and builders can use to integrate IAQ into dwellings while addressing budget constraints and other functional requirements.



ASHRAE Handbook – Continuously refined and updated, ASHRAE has published its Handbook series since the 1920s. The four volumes represent the accumulated wisdom and expertise of the Society's worldwide membership and extensive research – all of it peer reviewed by hundreds of HVAC&R industry experts. The result: an unmatched depth and breadth in the latest and best application of HVAC&R technology – crucial to creating and maintaining sustainable buildings.

Volumes cover HVAC applications, fundamentals, refrigeration, HVAC systems and equipment and a wide variety of applications.



ASHRAE Journal – The Society's official monthly publication and member benefit, the Journal speaks to and for the HVAC&R industry leaders in engineering. Articles are peer-reviewed and focus on technical issues, including green building, indoor air quality, energy management, thermal storage and alternative refrigerants. Special features cover topics such as sustainability, refrigeration application, controls and interoperability and legal issues.



High Performing Buildings Magazine – This quarterly magazine describes measured performance of practices and technologies to promote better buildings, presenting case studies that feature integrated building design practices and improved operations and maintenance techniques.

ashrae.org/technical-resources



ASHRAE Technology Portal

Access to ASHRAE Literature and Knowledge Base

ASHRAE TECHNOLOGY PORTAL

ASHRAE Technology Portal hosts a repository of ASHRAE Journal Articles, Research Reports, Handbook Volumes and Chapters, Transactions and Conference Papers, and Conference Seminars.

ASHRAE members have free access to PDFs of ASHRAE Journal Articles, Research Reports, and Handbook Volumes and Chapters (depending on member grade). Other content is available to members and non-members by subscription.

[ashrae.org/technologyportal](https://www.ashrae.org/technologyportal)

eLearning

ASHRAE eLearning offers more than 90 courses, ranging in length from one to eight hours. Most courses are recognized by the American Institute of Architects, and courses on green building design and performance by the Green Building Certification Institute, so subscribers can select a course exactly fitting their professional training requirements. ASHRAE eLearning allows you to learn at your own pace and when convenient. Course topics include:

- Building Performance
- System Design
- Sustainability
- Loads and Modeling
- Fundamentals: HVAC Systems
- Components and Equipment
- System Essentials
- Air Systems
- Hydronic Systems
- Special Systems
- HVAC Control Systems – I-P
- HVAC Control Systems – SI
- DDC Controls – I-P
- DDC Controls – SI
- AC and Refrigeration Principles
- Electrical System Design
- Standard 62.1: Ventilation for Acceptable Indoor Air Quality
- Standard 90.1: Energy Standard for Buildings
- Standard 189.1-2011 – High Performing Green Buildings
- Data Center Design
- Refrigerants

ashrae.org/elearning





ASHRAE LEARNING INSTITUTE

ASHRAE Learning Institute (ALI) offers a wide range of professional development training in a variety of lengths and modes of delivery. Courses are developed and taught by subject matter experts.

Instructor-Led Training

Seminars (6-hour) and Short Courses (3-hour) include:

- The Commissioning Process in New and Existing Buildings
- Complying with Standard 90.1-2013 (and 2016)
- Advanced High Performance Building Design
- Air-to-Air Energy Recovery Applications: Best Practices
- Complying with Requirements of ASHRAE Standard 62.1-2016
- Energy Modeling Best Practices and Applications: HVAC/Thermal
- Evaluation Methods for High Performance Green Buildings
- Exceeding Standard 90.1-2013 to Meet LEED® Requirements
- Designing Toward Net Zero Energy Commercial Buildings
- Designing Tall, Supertall and Megatall Building Systems
- Integrated Building Design

Global Training Center in Dubai

ASHRAE established the Global Training Center for Building Excellence to create and deliver customized training relevant to the needs of Middle East & Northern Africa (MENA) practitioners.

For a complete list of training visit ashrae.org/globaltrainingdubai.

Online Course Series

Real-time instructor-led online courses presented by industry experts on popular HVAC&R topics. Visit ashrae.org/onlinecourses for course scheduling.

HVAC Design Training

ALI offers two intensive HVAC Design training sessions that fill the need to improve overall building performance. Visit ashrae.org/hvactraining for the complete list of training dates and locations.

HVAC Design Level I—Essentials

Provides intensive, practical training ideal for recent technical or engineering school graduates, engineers new to the HVAC field, those who need a refresher in new technologies, and facility managers, sales representatives and others who want to gain a better understanding of HVAC fundamentals, equipment and systems.

HVAC Design Level II—Applications

Provides instruction in HVAC system design for experienced HVAC engineers and those who have completed the HVAC Design Level I—Essentials. The training covers the technical aspects of design and allows participants an opportunity to expand their exposure to HVAC systems applications to increase energy savings and improve indoor environmental quality.

Self-Directed Learning

Text-based, fundamental courses available through the ASHRAE Bookstore. Visit ashrae.org/sdl for the list of courses, descriptions and prices.

ashrae.org/education





ASHRAE CERTIFICATION

Building owners want to know who they should hire to design critical building systems that will impact occupant comfort, safety, efficiency and ultimately, profitability. Already recognized by over 35 national, state and local government bodies and with over 3,000 certifications earned, ASHRAE certifications have become the must-have credential for built-environment professionals. Developed by industry practitioners who understand the knowledge, skills and abilities critical to superior building design and system operation, earning an ASHRAE certification today can be a springboard to continued success tomorrow.

NEW! Certified HVAC Designer (CHD) – Validates competency of an HVAC Designer, working under the responsible charge of an engineer, to design HVAC systems to meet building/project requirements, including load calculations, equipment selection and sizing, mechanical equipment room design, duct and piping design and layout for the development of HVAC plans for permit and construction.



Building Energy Modeling Professional (BEMP) – Validates competency to model new and existing buildings and systems, and evaluate, select, use, calibrate and interpret the results of energy modeling software when applied to building and systems energy performance and economics. Developed in collaboration with the U.S. affiliate of the International Building Performance Simulation Association (IBPSA-USA) and IES.



Building Commissioning Professional (BCxP)

Recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG), the BCxP certification validates competency to lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings.



Healthcare Facility Design Professional (HFDP)

Validates competency to incorporate standards, guidelines and unique healthcare facility requirements and design principles in HVAC system design. Developed in collaboration with the American Society for Healthcare Engineering (ASHE) of the American Hospital Association (AHA).

Operations & Performance Management Professional (OPMP)

– Validates competency to manage facility operations and maintenance to achieve building performance goals, relating to IEQ, health and safety. Developed in collaboration with APPA and the U.S. General Services Administration (GSA).



High-Performance Building Design Professional (HBDP)

Validates competency to design and integrate sustainable HVAC&R systems into high performing buildings. Developed in collaboration with the Illuminating Engineering Society of North America (IES), Mechanical Contractors Association of America (MCAA) and with input from the U.S. Green Building Council (USGBC) and the Green Building Initiative (GBI).



Building Energy Assessment Professional (BEAP)

Recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG), the BEAP certification validates competency to assess building systems and site conditions; analyze and evaluate equipment and energy usage; and recommend strategies to optimize resource utilization.





ASHRAE 365 APP

This FREE app provides year-round updates and easy access to a range of ASHRAE programs and services.

The latest events including ASHRAE Conferences, Chapters Regional Conferences (CRCs), Topical Conferences, access to Virtual Conferences, and more.

Quick access to professional development resources including continuing education opportunities and the ASHRAE Job Board.

Information about Standards and Guidelines including the new Standards Review Database.

Volunteer and member resources, as well as information about how to get involved. Access your chapter website, make a gift, learn about leadership, contact staff, and more.

ashrae.org/365



FIND YOUR REGION AND CHAPTER
ashrae.org/chapters



ashrae.org

