



Membership Guide



Welcome to ASHRAE.

As an ASHRAE member, you are part of one of the strongest Societies leading the charge to a more sustainable future. The programs, publications, and benefits found in this guidebook exist because our members provided 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.

Thank you for your support.

This is Your Society.

ASHRAE members around the world drive sustainability through the development of technical information and standards. By joining, you gain direct access to new technology and universally recognized technical information, and you influence the direction of HVAC&R technology.

Membership in ASHRAE encompasses students just starting their careers, Young Engineers in ASHRAE (YEA), professionals with several decades of service, and life members who have shaped the industry with their efforts and insight. Whether you fall into one of these categories or somewhere in between, there is a place for you in ASHRAE.

Membership provides:

- A one-year subscription to ASHRAE Journal, and a digital subscription to the quarterly High Performing Buildings (HPB) magazine
- Members and Associates get an annual revised copy from the four-volume ASHRAE Handbook series
- Online access to Science and Technology for the Built Environment, ASHRAE Technology Portal
- Discounts on publications, courses, standards, and conference registrations

www.ashrae.org/MyASHRAE







ASHRAE Community

ASHRAE members span over 130 countries across the globe. Over 180 Chapters, and 15 Regions offer members local networking, and learning opportunities. If you want to get the most out of your membership, get involved in your local ASHRAE Region and Chapter.

www.ashrae.org/MyASHRAE



People Construct ASHRAE's Sustainable 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.

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, the largest HVACR trade show in the world, is held in conjunction with the ASHRAE Winter Conference.

Winter Conference Dates

Atlanta, GA., Jan. 12 – 16, 2019

Orlando, FL., Feb. 1 – 5, 2020

Annual Conference Dates

Houston, TX., Jun. 23 – 27, 2018

Kansas City, MO., Jun. 22 – 26, 2019

Specialty Conferences

ASHRAE Specialty 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 & SimBuild

co-sponsored by ASHRAE and IBPSA-USA
Chicago, IL., Sep. 26–28, 2018

Efficient Building Design

Beirut, Lebanon, Oct. 4–5, 2018

www.ashrae.org/conferences

Assemble Your Sustainable Library with 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 has been 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.

Standard 188 – ANSI/ASHRAE Standard 188 establishes minimum legionellosis risk management requirements for building water systems. Standard 188 is essential for anyone involved in design, construction, installation, commissioning, operation, maintenance, and service of centralized building water systems and components.

Standard 100 – ANSI/ASHRAE/IES Standard 100, *Energy Efficiency in Existing Buildings*, provides criteria for use in existing buildings and portions of the building to enable owners to increase the energy efficiency of systems and components and to improve the thermal performance of the building envelope.

ASHRAE Laboratory Design Guide: Planning and Operation of Laboratory HVAC Systems – This second edition is a comprehensive reference manual for the planning, design, and operation of laboratories. It gives engineers, owners, and system operators the design and control strategies they need to reduce the laboratory's energy footprint while ensuring safety, providing good comfort and indoor air quality, and protecting the integrity of laboratory experiments.

Thermal Guidelines for Data Processing Environments – As part of ASHRAE's Datacom series, this fourth edition provides equipment manufacturers and facility operations staff with a common set of guidelines for the design and construction of their respective equipment or facility, to aid in maximizing the performance and health of the facility and its contents.

Procedures for Commercial Building Energy Audits, 2nd ed. – This publication defines best practices for energy assessment and analysis for energy consulting engineers, LEED® professionals, real estate professionals, building owners and building managers. It establishes guidelines for Levels 1, 2 and 3 of audit effort, and shows how to conduct effective energy audits that lead to actionable audit reports. This reference includes access to more than 25 guideline forms.

ASHRAE GreenGuide – This is 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. Now available as an e-book.

HVAC Design Manual For Hospitals And Clinics – The updated second edition of HVAC Design Manual for Hospitals and Clinics provides those involved in the design, installation, and commissioning of HVAC systems for hospitals with a comprehensive reference source for their work.

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 Technology Portal

Access to ASHRAE Literature and Knowledge Base

ASHRAE Technology Portal

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

ASHRAE members have free access to download PDFs of ASHRAE Journal Articles and Research Reports. Other content is available to members and non-members by subscription.

www.ashrae.org/technologyportal

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

Full-day (6-hour) Seminars and half-day (3-hour) Short Courses 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 Fundamentals and Applications
- 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 www.ashrae.org/GlobalTrainingDubai.

www.ashrae.org/education





Online Course Series

Real-time instructor-led online courses presented by industry experts on popular HVAC&R topics.

Visit www.ashrae.org/onlinecourses for course scheduling.

HVAC Design Training

ASHRAE Learning Institute offers two intensive HVAC Design training sessions that fill the need to improve overall building performance.

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.

Visit www.ashrae.org/hvactraining for the complete list of training dates and locations.

Self-Directed Learning

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



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.

Current Course Packages:

- 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

www.ashrae-elearning.org





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 30 national, state and local government bodies and with over 2,500 certifications earned, ASHRAE certifications increasingly 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.



High-Performance Building Design Professional (HBDP)

The HBDP certification, an ANSI accredited certification program, validates competency to design and integrate sustainable HVAC&R systems into high performing buildings. The program was developed in collaboration with the Illuminating Engineering Society of North America (IES) and the Mechanical Contractors Association of America (MCAA) and with input from the U.S. Green Building Council (USGBC) and the Green Building Initiative (GBI).
www.ashrae.org/HBDP



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 building resource utilization.
www.ashrae.org/BEAP



RECOGNIZED PROGRAM
BY THE U.S. DEPARTMENT
OF ENERGY



Building Energy Modeling Professional (BEMP) – The BEMP certification, an ANSI accredited certification program, validates competency to model new and existing buildings and systems, and as well evaluate, select, use, calibrate and interpret the results of energy modeling software when applied to building and systems energy performance and economics. The program was developed in collaboration with the U.S. affiliate of the International Building Performance Simulation Association (IBPSA-USA) and IES.
www.ashrae.org/BEMP



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.
www.ashrae.org/BCxP



RECOGNIZED PROGRAM
BY THE U.S. DEPARTMENT
OF ENERGY

Operations & Performance Management Professional (OPMP)

The OPMP certification validates competency to manage facility operations and maintenance to achieve building performance goals, including those related to indoor environmental quality, health and safety. The program was developed in collaboration with APPA and the U.S. General Services Administration (GSA).
www.ashrae.org/OPMP

Healthcare Facility Design Professional (HFDP) – The HFDP certification validates competency to incorporate standards, guidelines as well as unique healthcare facility requirements and design principles in HVAC system design. The program was developed in collaboration with the American Society for Healthcare Engineering (ASHE) of the American Hospital Association (AHA).
www.ashrae.org/HFDP



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