

FRIGAIR 2025 ASHRAE COURSES



FRIGAIR will again be hosting world-class ASHRAE Global Training Centre speakers that will present three courses to run concurrently with the exhibition over three days.

These three courses will take place in Gallagher 1 at Gallagher Convention Centre, Midrand, during the FRIGAIR exhibition between 4–6 June 2025.

June 4, 2025 | Commissioning Process in New & Existing Buildings (6-hrs) 9:00 - 16:00

Course Description:

This introductory seminar focuses on how the building commissioning process can be applied cost-effectively to new construction and to existing facilities, with a strong emphasis on existing facilities applications. In this course, you will learn the fundamentals of the commissioning process through each step of a new construction project, from predesign to occupancy and operations. Find out more about how the application of the commissioning process in existing facilities differs from new construction. Learn about the benefits of commissioning and gain an appreciation for how the process can improve the built environment, reduce environmental impacts through responsible resource utilization, improve the quality of design and construction, and raise the professional reputation of the entire commissioning team. We will discuss commissioning documentation, including an overview of commissioning specifications for new construction. You will take away compelling information and case studies that demonstrate the value of investing in the commissioning process.

Learning Objectives:

- Identify important characteristics of the commissioning process and how its application differs in existing facilities versus new construction
- Learn how the commissioning process improves the built environment, reduces environmental impact through responsible resource utilisation, improves the quality of design and construction, and raises the professional reputation of the entire commissioning team
- Appreciate the benefits that accrue to all participants in the commissioning process for new and existing buildings
- Recognise the discipline and detail required, and the value to the owner, resulting from the time invested in documentation throughout the project
- Identify important elements in specifying commissioning process in new construction and contracting for commissioning services in existing facilities
- Understand the favorable economics of investing in the commissioning process

Instructor:

Samir R. Traboulsi, Ph.D., P.Eng., Fellow Life Member ASHRAE, is currently a senior lecturer at the American University of Beirut, at the Order of Engineers & Architects in Lebanon, and with ASHRAE Global Training in Dubai. He teaches a variety of subjects including building services technical courses, MEP design of green buildings, HVAC design courses, thermodynamics, operations research, the engineering economy, and engineering ethics. Dr. Traboulsi is the founder and was the president of the Lebanese chapter of ASHRAE (1995-1996), as well as director regional chair (2005-2008) and director at large (2009-2012) for ASHRAE. He also served as co-founder and former president of the Lebanon Green Building Council (2008-2012). He has worked extensively with UN agencies as a consultant and has presented lectures worldwide. Dr. Traboulsi is the author of numerous publications and is the recipient of the ASHRAE John F. James International award (2003), the Student Activities Achievements Award (2005), the Distinguished Service Award (2008), the ASHRAE Exceptional Service Award (2014), the ASHRAE Fellow Award (2014) and the ASHRAE F. Paul Anderson Award (2021). He is CIBSE Fellow & NEBB Certified Professional. Dr. Samir is also an ASHRAE Distinguished Lecturer, and currently is serving ASHRAE Planning Committee, (2024-2027); the Vice President of the College of Fellows (2024-2026) and the EXCOM of the Life Membership Club (203-2027).



June 5, 2025 | Effective Energy Management in New & Existing Buildings (6-hrs) 9:00 - 16:00

Course Description:

Buildings use 40% of U.S. energy, of which one-third can be cost effectively saved by using energy management—an orderly process in which managers use resources at their disposal to accomplish clear, energy-saving objectives. Sustained energy management is the quickest, cheapest, cleanest way to expand our world's energy supplies and reduce greenhouse gas emissions. This seminar weaves together energy management principles of the ASHRAE Handbook—HVAC Applications, ENERGY STAR® guidelines, and the new ASHRAE/IES Standard 100-2018, *Energy Efficiency in Existing Buildings*. Practical experiences of successful energy managers are presented. Numerous case studies are discussed, including a hospital, high-rise building, bank, and convention centre. Together, these successful examples demonstrate how to take advantage of the ENERGY STAR® Portfolio Manager for documented performance tracking and national recognition as an ENERGY STAR.

Learning Objectives:

- Describe the ENERGY STAR® management cycle
- Analyse basic billing and load profile information
- Interpret weather-adjusted energy data
- Distinguish between Levels I, II, and III of a commercial building energy audit
- Identify opportunities for energy savings in your buildings based on course suggestions
- Develop an action plan to get started, targeting
 - preliminary energy analysis or
 - a test of discretionary facility operation

Instructor:

Hassan Younes, HBPD, BEAP, OPMP, HFDP, BEMP, BCxP, CHD, CEM, CMVP, Member ASHRAE, LEED® AP, Hassan Younes has over 15 years of extensive experience in the fields of Energy Efficiency, Design, Sustainability, and Project Execution and Management. Prior to co-founding GRFN, he was the Mechanical Manager at Meraas Holding, one of the leading developers in the region and was involved in the design of multiple large-scale developments.



He is a trainer for ASHRAE Global Training. He is an appointed Consultant for ASHRAE 62.1 Standard. He is a Certified trainer for CEM (Certified Energy Manager) course, Certified Measurement Verification Professional (CMVP) course and the trainer for the Emirates Green Building Council Building Retrofit Program. He is also the current ASHRAE Falcon Chapter president and on the technical committee and was the Vice Chair of CIBSE Regional Chapter. He holds all ASHRAE certifications and has been involved in many high-end projects in the MENA region.

Important Information:

- All of these courses carry the relevant CPD credits for participants.
- Course fees include light snacks and refreshments.
- Course material will be provided to participants electronically from ASHRAE directly.
- Certificates of attendance will be provided electronically after the courses from ASHRAE directly.
- Programme times may be subject to change.

**BOOKING AND PAYMENT DEADLINE:
28 February 2025.**

June 6, 2025 | Smart HVAC Solutions for Climate Design (3-hrs)
9:00 - 12:00

Course Description:

This course is based on the new *ASHRAE Cold-Climate Buildings Design Guide, 2nd edition*, and the forthcoming *ASHRAE Hot-Climate Buildings Design Guide*. It also references the work and guidance of ASHRAE's Epidemic Task Force and Task Force for Building Decarbonization.

There are several special considerations for very cold and very hot climates: remoteness, HVAC function (the need for maintenance, repairs - frost bite in cold, heat stroke in hot), reliable supply of fuels, high energy use (heat in winter, coolth in summer), low to high humidity, freeze protection, equipment overheating and the need to consider how impending climate change will increase these requirements in the future. Engineers must design HVAC systems which can operate effectively and reliably throughout these conditions while ensuring system efficiency, energy efficiency, low GHG emissions; adhering to the new guidance that has been published to reduce risks of airborne infection during pandemic threats; and while meeting net zero energy targets and carbon reduction goals. Guidance on what provisions should be made now will be covered.

Passive systems and applications (such as natural ventilation in places where external air will range from subzero to extremely hot), hybrid passive and mechanical heating and ventilation applications, and common pitfalls for cold and hot climate design will also be discussed.

Learning Objectives:

- Provide an overview of ASHRAE's new Cold Climate Design Guide
- Provide an overview of ASHRAE's new Hot Climate Design Guide
- Identify "big picture" design considerations for projects in cold and hot climates
- Consider options for the 'shoulder' seasons of spring and autumn especially beneficial choices
- Describe unique construction and planning logistics for projects in climates where systems must be able to heat when needed and cool when needed
- Identify some common pitfalls for cold and hot climate design
- Identify opportunities for integrated designs which achieve passive design in temperate conditions whilst meeting cold and hot demands.
- Provide useful case studies and reference projects
- Provide an update on current ASHRAE research in design for future hot and cold climate changes

Instructor:

Frank Mills, C.Eng., Fellow CIBSE, Member ASHRAE, is the president/owner of Frank Mills Consulting, which specialises in design, management, supervision, construction, and operation of building services engineering projects, including education, healthcare/hospitals, research, industrial, process, commercial, retail, computer/data suites, shopping centres (including town centres), and residential (housing, hotels, and apartment buildings). These projects offer low energy features and include several exemplary zero carbon buildings. The schemes also include district energy/trigeneration systems which serve numerous buildings. Mr. Mills has worked closely with the Building Research Establishment (BRE) in the United Kingdom and with ASHRAE TC 2.8, Sustainability, as the committee's international representative, to create new environmental design and rating systems that aid developers and their designers toward low carbon and environmentally friendly projects. He pioneered the new BREEAM Communities environmental rating system for whole scale phased developments by using Media City, Salford, UK, as a pilot study for the development work behind this new scheme. When chairman of the ASHRAE Region-at-Large, Mr. Mills was actively involved in planning the 2009 Chapter Region Council meeting and conference in Kuwait. There, he also organised a session on low carbon and sustainable cities and presented the Media City, UK case study project. He is also the presenter for ASHRAE Learning Institute courses on natural ventilation and net zero energy buildings.



**BOOK YOUR SPOT NOW,
SPACE IS LIMITED!**



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SEND BACK YOUR BOOKING

Complete the following booking form and send it back immediately to secure your spot. Please also send through your proof of payment. No bookings will be accepted without payment.

Please send your completed information form to Sean Macnamara: Email: sean@interactmedia.co.za
Tel: +27 (0)11 579 4940. **Bookings will be made on a first come, first serve basis. Please note that space is limited.**

REGISTRATION FORM - PLEASE COMPLETE

Full name and surname

Membership number (if applicable)

Company name:

VAT No: (if company is paying)

Contact number:

Postal address:.....
.....

Company registration number:

Email:

PAYMENT:

Payment to: IMD CONFERENCES EXHIBITIONS AND WORKSHOPS (PTY) LTD,
Bank: First National Bank
Branch name: BEDFORD GARDENS
Account number: 6281 5858 222
Branch code: 252 155,

SELECT COURSE(S):

- q June 4, 2025 - Commissioning Process in New & Existing Buildings (6-hrs) **R4 600.00 excl. VAT**
- q June 5, 2025 - Effective Energy Management in New & Existing Buildings (6-hrs) **R4 600.00 excl. VAT**
- q June 6, 2025 - Smart HVAC Solutions for Climate Design (3-hrs) **R3 700.00 excl. VAT**

**BOOKING AND PAYMENT DEADLINE:
28 February 2025.**



Visit the FRIGAIR official website for full course details and information about the speakers.

www.frigairexpo.co.za