REPS ROOFING & EXTERIOR PRODUCTS SERVICES
ROOFING DIVISION

ROOFING CONTINUING EDUCATION OPPORTUNITIES

As of 12/2025

Roofing Insulation and Cover Boards | ***Course BURSI - ICB 22*** | ***AIA/CES 1.0 LU|HSW***

- Gain a better understanding of both high-density and low-density roofing insulation.
- Review thermal resistance design along with dew point calculation.
- Comparative analysis of all primary low-slope roofing insulations and coverboards.
- Tapered insulation overview and system design.

Single Ply Roofing Systems | ***Course BURSI - SP V22*** | ***Credit Designations: AIA/CES 1.0 LU|HSW***

- Introduction to the different Material Types, properties, and characteristics of TPO, PVC, and EPDM roofing membranes.
- Understand the single-ply history.
- Gain a better understanding of the different system applications and performance characteristics.
- Have the ability to match system and installation methods when considering which system would best fit your design criteria.

Bituminous Roofing Systems | ***Course BURSI-BS V22*** | ***Credit Designations: AIA/CES 1.0 LU|HSW***

- Introduction to the different Material Types, properties, and characteristics of SBS and APP roofing membranes.
- Gain a better understanding of the different system applications and performance characteristics.
- Have the ability to match reinforcement characteristics with the correct installation methods when considering which system would best fit your design criteria.

Roofing Systems Selection and Design Criteria (Wind uplift, energy efficiency, code requirements, overview of 6 primary membranes | ***Course BURSI-SS V22*** | ***Credit Designations: AIA/CES 1.0 LU|HSW***

- Understand the criteria that play a role in defining the proper roofing systems for client and site requirements.
- Understand the difference between wind speed and wind uplift and the factors influencing the calculations.
- Communicate to clients why specific systems are selected for certain reasons. Review primary code considerations and how different roofing materials can meet specific requirements.

Staying Up to Date with Low Slope Roofing: Trends, Standards, and Innovations | ***Course BURSI - SUD 22*** | ***Credit Designations: AIA/CES 1.0 LU|HSW***

- Review the benefits of the different roofing solutions available while understanding the market trends for each and how they could impact your system selection.
- Learn about ASCE 7, minimum building design loads, and other structures. How has this standard changed with the release of ASCE 7-16, and how has the roof design been impacted.
- Gain a better understanding of FM's Very Severe Hail rating, where and why this is critical for roof design, and how to identify roofing systems that meet this rating.
- Come up to speed on the most recent best practices and innovations for low-slope roofing. Understand how these are changing the design and installation of these systems.

Green Roofing | ***Credit Designations: AIA/CES 1.0 LU|HSW*** | This course will go over the basics of vegetated roof construction and how the industry has documented successful installations over the last 25 years in the United States. We will teach the design requirements and standards unique to green roofs. The course will educate the participant on the benefits of the technology- including stormwater management and lowering roof temperatures. We will also provide project examples across the country that incorporate a variety of technologies such as biosolar, amenity decks, daylight harvesting, and agricultural production.

Integrating Access Doors | ***Credit Designations: AIA/CES 1.0 LU|HSW*** | This one-hour course explores commercial wall and ceiling Access Doors, their purposes, locations and applications. You will learn design considerations and factors including fire-ratings, materials and hardware. We will also discuss code, compliances and LEED requirements necessary for specification.

Roof Hatches: Safety Standards, Applications & Regulations | ***Credit Designations: AIA/CES 1.0 LU|HSW*** | This course covers the essentials of commercial roof hatches, including key materials, hardware, and specification requirements. It explores roof access hatch applications for both personnel and equipment, emphasizing the importance of incorporating thermal breaks to enhance energy efficiency and prevent condensation. Considerations for roof hatches in extreme weather conditions are discussed, along with how these factors relate to building code certifications and standards. Additionally, the course reviews the basics of roof hatch installation, while highlighting the importance of fall protection in compliance with OSHA regulations and other code requirements.

Commercial Smoke Vents: Design and Application Essentials for Life Safety and Welfare | ***Credit Designations: AIA/CES 1.0 LU|HSW*** | This course explains the benefits of smoke vents to life safety and welfare. The AEC professional will have a better understanding of code regulations, product and option selection, testing and certification, and will be able to properly size and place vents in accordance with these codes and regulations.

Cold Liquid Applied Roofing & Waterproofing Systems | ***KSA-1*** | ***Credit Designations: AIA/CES 1.5 LU|HSW & 1.5 RCI CEH*** | History of fully reinforced, cold-fluid applied, liquid resin waterproofing membranes. Technology - composite of resin and reinforcement. Understanding system components. Application process, performance benefits, range of applications. Project examples including detailing and various assemblies.

Green, Blue and White and Its Applicability to Sustainable Design | ***KSA-2*** | ***Credit Designations: AIA/CES 1.5 LU|HSW &USGBC GBCI: 910000002 1.5 CE & 1.5 RCI CEH*** | There are now three distinct types of sustainable roof solutions: green, blue and white. Designers need to understand the relative benefits of each approach to effectively select the appropriate system for the project. Understand the standards that are used as the basis for green roofs and their myriad benefits that can be reaped. Numerous case studied will be presented.

Technical Inspections for Liquid Resin Roofing & Waterproofing Membranes | ***KSA-3*** | ***Credit Designations: AIA/CES 1.5 LU|HSW & 1.5 RCI CEH*** | With the mainstream usage of the Cold Fluid Applied, Liquid Resin Roofing & Waterproofing Membranes; it is necessary to obtain the technical knowledge used to provide QC inspections. Course will provide attendees of basic “what to look for” information, some science related to the information, and corrective course of actions that may be possible.

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Dynamic Tour of Liquid Resin Roofing & Waterproofing Materials Manufacturing Facility | ***KSA-5*** | ***Credit Designations: AIA/CES 1.0 LU|HSW & 1.0 RCI CEH*** | Guided Manufacturing Plant Tour of Kemper System America’s West Seneca, NY Facility. Tour includes a review of plant safety criteria (5 mins); QC & R&D labs (30 mins) introduction into various equipment used for ASTM and product testing; Warehouse tour (5 mins) including discussion of building design for containing potential spills to protect surrounding wildlife area; Distribution center (5 mins) discussions including QC process for incoming raw materials and outgoing products; Manufacturing overview showing machinery and processes for creating various liquid resins, primer, topcoats, & coatings.

Sustainable Roofing Strategies: fighting the effects of Urban Heat Island **| *KSA-6* | *Credit Designations: AIA/CES 1.0 LU|HSW* |** What are you doing to address the urban heat island effect? This hot topic in the design industry has led to local governments following LEED and amending their building codes to combat the effect of traditional roofing materials. In this session, you'll discover materials and techniques that will help you bring sustainable roofing into your practice - meeting both the latest building codes and the demands of increasingly eco-conscious clients. Discover how "cool roofing" and "green roofing" can help elevate sustainability while also maintaining performance and controlling costs.

Performance Standards and Code Requirements for Air Barrier Systems | *KSA-7* | *Credit Designations: AIA/CES 1.0 LU|HSW* | This program provides an in depth look at the performance standards, testing and codes relating to Air Barrier Systems. This includes the 2015 IECC code requirements and NFPA 285 requirements. Participants will understand how to select the proper air barrier system for their project and the benefits a proper system provides.

Using Radiant Heat Barriers to Manage Heat Gain, Increase Building Occupant Comfort, and Reduce Energy Costs |*KSA-8* | *Credit Designations: AIA/CES 1.0 LU|HSW* | There are 3 modes of heat transfer: conductive, convective, & radiant. Radiant Heat Gain (RHG) accounts for significant increases in energy use and impacts building occupant comfort. The use of Radiant Heat Barriers in specific project types can reduce RHG by up to 80% or more improving building performance in both categories. This presentation will provide insight into the science and the solutions.

Technical Conference and Workshop on Liquid-Applied Waterproofing and Roofing Solutions | *KSWS* | *Credit Designations: AIA/CES 3.0 LU|HSW & 3.0 RCI CEH* | Introduce the concept of cold-liquid reinforced systems. Describe their advantages and attributes, particularly with respect to sustainability and minimal environmental impact. Illustrate their wide range of roofing, waterproofing and surfacing applications. Step by Step application methods to increase efficiencies and productivity, where and when to use these products on your own, guidelines based upon 50 years of experience for various kinds of applications, do and don't tips, helpful hints to increase productivity, how to install from mobilization, site set-up, demo, preparation of all substrate types, primer guidelines, installation of various membranes and installation of various top coats. Overview of bidding procedures and guidelines to better help specifiers, contractors, owners, general construction managers estimate more accurately. Provide a hands-on demonstration using a 2 component urethane liquid resin with fabric reinforcement to show application of the membrane field, flashings, pipe penetrations and drains. Demonstrate surfacing application for use over membrane.

ONLINE: SELF-PACED COURSE - **Sustainability from the Top: Blue, White, & Green Roof Benefits**
Assesses the urban environmental issues of storm-water runoff and heat islands and describes how their damaging impacts can be mitigated by blue, white and green roofs. The considerations and additional benefits of each roof type are also discussed.

RPH Advanced Building Solutions

How Roof & Wall Penetrations are Affected by ICC 500-2020 and IECC 2018/2021 | AIA/ASPE Accredited | Ideal for specifiers involved in commercial, storm shelter, and code-driven projects.

Advanced Strategies for Building Envelope Penetrations in Mission Critical and Advanced Technology Facilities | AIA/ASPE Accredited | Tailored for specifiers in mission-critical, advanced technology, and manufacturing sectors.

Improved Penetration Strategies: Best Practices for Engineering Specs | AIA/ASPE Accredited | Focusing on effective approaches to engineering specifications.

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Wood Nailer Alternatives: Sustainable Solution to Enhance Roof Perimeter Security and Strength | *Credit Designations: AIA/CES 1.0 LU|HSW / 1.0 LU IIBEC CEH* | Did you know that the roof perimeter edge plays a crucial role in protecting the entire building envelope? According to a recent study by FM, 80% of global wind-related losses were due to roofing system failures, with 59% caused by roof perimeter failures. One often overlooked yet vital component is the wood nailer, which ensures the securement of perimeter edge metal. Learn how this essential feature impacts the strength, durability, and sustainability of your roof system. Strengthen your knowledge and discover why the nailer is a key contributor to long-term roof performance.

Loss Mitigation through Building Design | MET-108 | *Credit Designations: AIA/CES 1.0 LU|HSW / 1.0 LU IIBEC CEH* | The rise in natural disaster events has led to insurance claims in the billions of dollars, and most importantly, loss of life. This trend has prompted standards such as ES1 and GT-1 to be added to international building code, but what else can be done to mitigate risk? Through this course, learn about how specifying the roof edge is the single most cost-effective enhancement for wind uplift on a commercial roof and how you can help mitigate risk and protect lives through design.

Perimeter Edge Metal Wind Design Seminar: Understanding ANSI/SPRI/FM 4435/ES-1 | MET-104 | *Credit Designations: AIA/CES 1.0 LU|HSW / 1.0 LU IIBEC CEH* | The roof edge serves as the building's first line of defense against damaging winds and severe weather. That's why specifying a roof edge to be compliant with ANSI/SPRI/FM 4435/ES-1 and other important testing standards to meet building code is critical. Learn more about how you can significantly reduce risk and liability while protecting roof systems against failure.

Gutters & ANSI/SPRI GT-1 | MET-107 | *Credit Designations: AIA/CES 1.0 LU|HSW / 1.0 LU IIBEC CEH* | ANSI/SPRI GT-1 was added into the 2021 International Building Code, offering a holistic approach to design and testing standards for gutter systems. As gutters are an integral part of the roof edge system, ANSI/SPRI GT-1 provides a consensus for an acceptable level of performance with real world practicality. This course will review the standard and test methods for gutter systems that secure membrane on commercial low slope roof systems for load resistance and why that is important for specifiers.

Principles of Commercial Roof Ventilation | VTFF0302 | *Credit Designations: AIA/CES 1.0 LU|HSW / 1.0 LU IIBEC CEH* | Looking for a better understanding of the principles of properly ventilating a roof system? This training will not only provide an overview of roof ventilation, but additional understanding of the unique needs of a commercial building compared to residential buildings.

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