# Continuing Education Presentation

**Program Name:** Resilient Roofing – Meeting the ASCE 7-16 Standard (#RRASCE7-16)

**Length:** Approx. one hour

**Credit:** 1.0 LU | HSW

**Description:** The purpose of this course is to discuss how the new ASCE 7-16 standard affects resilient roofing systems.

**Learning Objectives:**

- Provide an overview of the ASCE 7 standards and geographic adoption
- Review and contrast the changes of the new ASCE 7-16 standard
- Gain a working knowledge of wind speeds impact on design and installation practices
- Understand how the ASCE 7-16 standard affects roof installation methods
- Explain how wind speeds relate to wind design practices and warranty coverage

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## Continuing Education Presentation

**Program Name:** Daylgtrfg- Introduction to Daylighting Systems

**Length:** Approx. one hour

**Credit:** 1.0 LU | HSW

**Description:** To understand what daylighting is compared to roofing components/energy

**Learning Objectives:**

- To provide understanding of Daylighting Systems
- To provide understanding for what systems are used
- To illustrate the various ways Daylighting can lower energy costs for building investments

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## Continuing Education Presentation

**Program Name:** RFGaspbasics- Asphalt Roofing Basics

**Length:** Approx. one hour

**Credit:** 1.0 LU | HSW

**Description:** To cover Asphalt roofing systems and components

**Learning Objectives:**

- To provide fundamental knowledge about basic roofing practices
- Gain knowledge of different system types
- Provides an update on good roofing techniques/membrane selection

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## Continuing Education Presentation

**Program Name:** Rfglplyrev_A2 The single ply Revolution

**Length:** Approx. one hour

**Credit:** 1.0 LU | HSW

**Description:** To understand the changes/evolutive of a single ply roof

**Learning Objectives:**

- To provide understanding of different single ply roofing systems
- To provide understanding of the evolution of the single ply roof
- To illustrate the various methods that a single ply roof may benefit your building investment

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# Continuing Education Presentation

**Program Name:** RFGsel-Commercial Roofing Selection Criteria

**Length:** Approx. one hour

**Credit:** 1.0 LU | HSW

**Description:** To understand importance of choosing the right roof

**Learning Objectives:**

- To provide understanding of different roofing systems
- To provide understanding to select what roof is right for you
- To illustrate the various ways the to make the best roof selection for your building's needs

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# Continuing Education Presentation

**Program Name:** RFGsply1-Single Ply Roof Covers/Membranes

**Length:** Approx. one hour

**Credit:** 1.0 LU | HSW

**Description:** To cover single ply membrane roofing systems and components

**Learning Objectives:**

- To provide fundamental knowledge about basic roofing practices
- Gain knowledge of different system types
- Provides an update on good roofing techniques/membrane selection

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## Continuing Education Presentation

**Program Name:** RFGTEC-Commercial Roofing Technologies

**Length:** Approx. one hour

**Credit:** 1.0 LU | HSW

**Description:** To cover history of commercial roofing and where it is evolving

**Learning Objectives:**

- To provide history of commercial roofing
- Techniques to benefit long term efficiency
- Maintenance strategies

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## Continuing Education Presentation

**Program Name:** W30A_A2-Designers Guide to Vegetative Roof Systems

**Length:** Approx. one hour

**Credit:** 1.0 LU | HSW

**Description:** To cover components and importance of green/vegetative roofing benefits

**Learning Objectives:**

- To provide understanding of Garden Roofing
- To provide understanding for what systems are used
- To illustrate the various ways garden roofing benefits the environment

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## Continuing Education Presentation

**Program Name:** OPInsul-Optimized Insulation

**Length:** Approx. one hour

**Credit:** 1.0 LU | HSW

**Description:** To understand importance of insulation/energy savings in a roof

**Learning Objectives:**

- To provide understanding of insulation benefits
- To provide understanding energy saving options
- To illustrate the various ways the correct R-Value can lower energy costs for building investments

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## Continuing Education Presentation

**Program Name: GW4 - Coatings- A Sustainable Choice**

**Length:** Approx. one hour

**Credit:** 1 HS&W/Learning Unit (LU) Hour

**Description:** An introduction into the different compositions of roof coatings

**Learning Objectives:**

- An introduction into the different compositions of roof coatings.
- Will examine the benefits of roof coatings versus roof replacement.
- Discuss energy and environmental benefits.

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# Continuing Education Presentation

**Program Name:** Using Electromagnetic Induction Welding to Secure Roofs

**Length:** Approx. one hour

**Credit:** 1 AIA HSW/LU CE Hour, 1 AIBD CE Hour, 1 IIBEC CEH, 1 RCEP PDH for Engineers

**Description:** In this one-hour course, we will review the process of electromagnetic induction to see how it is used in our world today. Then, we will discuss how that process has been adapted for use installing commercial roofing systems. In addition, we will review other installation methods and compare them to the electromagnetic induction method to reveal key advantages, including better wind performance, lower potential for leaks due to fewer seaming and no membrane penetrations, and greater installation efficiency.
In addition, we will explore proper installation methods, test results, best practices, and applications as well as examine how electromagnetic induction installation can help to enhance and fortify the entire roofing system.

**Learning Objectives:**

- Define electromagnetic induction welding and explain how the process is applied to the roofing industry to better secure the building envelope
- Compare the electromagnetic induction process to traditional methods of single-ply installation to discover key advantages, including material savings, wind performance and installation efficiency
- Explain the installation process to ensure proper procedures are being followed to better protect the building and its inhabitants
- Analyze best practices as well as project applications to identify ways that the electromagnetic welding process improves the overall effectiveness of the entire roofing system

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## Continuing Education Presentation

**CUTTING – EDGE CODE COMPLIANCE**

**COURSE NUMBER: IOM07A**

**CREDIT:** 1 AIA LU/HSW CE HOUR
1 IIBEC CEH
1 PDH for Engineers

**COURSE DESCRIPTION:** This one-hour course examines the importance of specifying the proper edge solution for commercial roofing systems that complies with the most recent code changes with products that have been tested for the appropriate type of project. The correct edge system will not only be functional and have an aesthetic style that suits design professionals, but it will also serve as the roof's first line of defense against wind damage and water infiltration.
To reduce liability associated with substantial roof damage and loss from a storm, it is important for design professionals to fully understand changes in the building code and testing methods required for each project. The goal is to equip designers and specifiers with cutting edge information to make critical decisions that will ensure the building envelope is securely protected with edge systems that meet or exceed expectations as well as better protect building occupants.

**LEARNING OBJECTIVES:**

- **Identify** the functions of the roof edge systems and why these functions are critical to protecting the building and its occupants.
- **Explain** ANSI/SPRI/FM 4435/ES-1 and how it relates to protecting the roof system from environmental elements.
- **Discuss** the three required test methods as well as how they ensure code compliance to focus on the provision of durable roof systems that extend the building's life cycle.
- **Analyze** how edge systems are applied to diverse projects to ensure the overall safety of the building envelope and its occupants.

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## Continuing Education Presentation

**FACTORY TOUR: JOURNEY TO THE EDGE OF THE ROOF (Arden, NC)**

**COURSE NUMBER: IOM07C**

**CREDITS:** 3 AIA HSW CE Hours

**LENGTH:** 3 Hours

**COURSE DESCRIPTION:** Design professionals will have the opportunity to participate in a factory tour where they will be able to dive more deeply into the topic of using pre-engineered edge systems to provide greater protection to the roof of a building as well as to its inhabitants. First, an overview will be given to present industry findings to emphasize the significance of specifying a technical solution that maintains the integrity of the roof during various forces of nature. Second, we will demonstrate the edge system manufacturing process and discuss design parameters to participants. During the plant tour, participants will also be exposed to cellular manufacturing as a means to drive continuous improvement in quality and delivery as well as an installation demonstration to highlight the differences between the systems. Third, we will demonstrate testing methods that apply to roof edge systems so that participants have a greater understanding of the importance of specifying products that perform under pressure and defend the building envelope.

**LEARNING OBJECTIVES:**

Upon completion of the course, the participant will be able to:

- **Identify** the function of roof edge systems and explain why they are critical to protecting the building and its occupants
- **Explain** how pre-engineered edge is designed and manufactured to comply with standards, including IBC, Factory Mutual, and building/specification requirements
- **Discuss** the differences between an engineered edge solution and common shop fab details as well as explain how the proper installation methods ensure a durable roofing system
- **Analyze** the importance of testing roof edge systems to meet ASCE 7 wind design criteria per ANSI/SPRI/FM 4435/ES-1 test protocols RE-2 and RE-3 to better protect the building envelope

## Continuing Education Presentation

**Program Name:** Fall Protection and the new OSHA Rules

**Length:** Approx. one hour

**Credit:** 1.0 LU | HSW

**Description:** An overview of the codes pertinent to permanent engineered fall protection systems, design considerations for common hazards and installation options

**Learning Objectives:**

- Review new OSHA rule and consensus standards
- Timeline for application of codes & standards
- Overview of fall protection product categories
- What, where, how?

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# Daylighting Continuing Education Presentations

**AIA Course #** 000350 1 LU | HSW **Emerging Toplighting Technologies**

**Course Description**

- Review the influencing factors impacting daylighting in commercial buildings and the emerging technologies. The course will focus on improving the natural lighting environments where people learn, work and socialize.

**AIA Course #** HPS2019 1 LU | HSW **Daylighting High Performance Schools with Toplighting Strategies**

**Course Description**

- Review the definition of High Performance Schools as defined by the U.S. Environmental Protection Agency and examine toplighting and skylighting as a tool for proper daylighting strategies. An overview of the role natural daylight plays in bio-chemical health and provide a synopsis of current innovations.

**AIA Course #** WAS04 1 LU | HSW **High-Performance Design with Polycarbonate Glazing Systems**

**Course Description**

- Learn how polycarbonate glazing systems offer the most durable, cost-effective alternative and the role polycarbonate glazing systems play in improving light quality,health, performance, and productivity while delivering unparalleled durability and extended service life.

**AIA Course #**000310 1 LU | HSW **Emerging Top Daylighting Strategies**

**Course Description**

- Review the challenges within current daylight applications and focus on best application practices utilizing technological advancements with various skylight systems. Discuss the important benefits of essential energy codes and how to utilize these codes to produce energy efficient daylighting designs with aesthetically pleasing high quality spaces.

**AIA Course #**000360 1 LU | HSW **Unitizing Structural Skylights**

**Course Description**

- Throughout this course on Unitized Structural Skylights, we will review the popularity of unitized curtain walls, how it transformed vertical glazing, and an introduction to a 21st century innovation for unitized structural skylights. This presentation will dive into the benefits and design features modular daylighting brings to the efficiency of a building and its occupants

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