Sika Sarnafil

World Class Roofing and Waterproofing

Course Name: **What Makes a Thermoplastic Roof Sustainable?**

Learning Units: 1 LU/HSW

Course Length: One hour

HSW: Yes (health, safety and welfare)

Course Learning Objectives:

- The importance of proven performance and membrane durability (the longer the roofing system lasts, the less roofing systems end up in a landfill)
- Understanding the difference between Post-industrial, Pre-consumer and Post-consumer recycling and the benefits of choosing a product that recycles post-consumer back into new membrane (full circle recycling).
- A knowledge of the natural fire resistant properties of some roofing membranes and a review of how different fire resistant roofing membranes perform when actually on fire.
- An understanding of the term "life-cycle" and how specifying a roofing system that has a low impact on life-cycle is beneficial not only for environment, but an owner's wallet.

Course Name: **Separating Cool Roofing Facts from Myths (NEW)**

Learning Units: 1 LU/HSW

Course Length: One hour

HSW: Yes (health, safety and welfare)

Course Learning Objectives:

- Understanding the concept of "cool roofing", how they function and how they are defined and qualified in various energy and environmental codes and standards
- Assess the potential environmental impacts of broad implementation of cool roofing strategies
- Evaluate the energy benefits of cool roofing materials in northern climates
- Review the performance of some cool roofing materials in practice over the past decades

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Course Name: **Green Roof Education**

Learning Units: 1 LU/HSW

Course Length: One hour

HSW: Yes (health, safety and welfare)

Course Learning Objectives:

- The benefits of installing a green roof
- Why waterproofing is the most important part of a green roof system
- How to obtain points towards LEED certification with a green roof

Course Name: **Green Roof Education – Lessons Learned**

Learning Units: 1 LU/HSW

Course Length: One hour

HSW: No (health, safety and welfare)

Course Learning Objectives:

- Review of green roof definitions and design options.
- Understand the 10 most common green roof construction errors through case study analysis
- Describe 12 keys to a successful green roof design and delivery
- Overview of green roof warranties and ‘state of the art’ product recycling initiatives

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Course Name: **Thermoplastic Commercial Roofing Systems**

Learning Units: 1 LU

Course Length: One hour

HSW: No (health, safety and welfare)

Course Learning Objectives:

- Customers will obtain a better understanding of what a single-ply roofing system is and what are the advantages.
- How membrane formulation and manufacturing differences can play a big impact on the performance of a roofing system.
- The different types of attachment methods for roofing systems and when to use one versus the other.
- Important points to consider when choosing the right roofing systems for your project.

Course Name: **The Importance of Waterproofing Plaza Decks**

Learning Units: 1 LU

Course Length: One hour

HSW: No (health, safety and welfare)

Course Learning Objectives:

- Customers will obtain a better understanding of what a horizontal waterproofing application is and what waterproofing systems are available to choose from.
- How membrane creation can have a big impact on the performance of a waterproofing system.
- The different types of thermoplastic waterproofing systems and when to use one versus the other.
- Important points to consider when choosing the right waterproofing system for your project.

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Course Name: **Economical & Eco-Friendly Roofing Systems**

Learning Units: 1 LU/HSW

Course Length: One hour

HSW: Yes (health, safety and welfare)

Course Learning Objectives:

- Learn about how the single-ply roofing market and how it has changed in the last 15 years.
- Be able to identify sustainability and economic drivers when evaluating roofing systems.
- Be able to understand the features and benefits of an ecologically-friendly roof.
- Be able to understand how an eco-friendly roof delivers sustainable and economic value – today and tomorrow.

Course Name: **The Facts about PVC and the Environment**

Learning Units: 1 LU/HSW

Course Length: One hour

HSW: Yes (health, safety and welfare)

Course Learning Objectives:

- Discussion about how polyvinyl chloride (PVC) is the most commonly used plastic in the construction industry and if it imposes a burden on our environment.
- Learn what third party test results say about PVC.
- Understand how PVC is actually one of the more sustainable construction products being used.
- Learn how to accurately evaluate both sides of the PVC argument to make and educated judgment.

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Course Name: **The Differences Between Wind Warranties and Wind Uplift Requirements for Roofing**

Learning Units: 1 LU/HSW

Course Length: One hour

HSW: No (health, safety and welfare)

Learning Objectives:

- Chapters 15 and 16 of the International Building Code that discuss the requirements for wind performance will be reviewed and how these requirements ultimately protect your building. The basic calculations for ASCE requirements while comparing the two versions and then comparing to FM Global
- Attendees will learn the differences between the 2005 and 2010 ASCE wind maps as well as FM Global wind maps and what that means for building codes in your part of the country.
- Wind Up-lift test methods simulate real world occurrences in an effort to prevent a catastrophe to a building from wind. A review of the various accepted methods will be discussed.
- Attendees will then learn how the testing methods that lead to the codes/approvals correlate to real world problems and failures.

Course Name: **Simulated Standing Seam Metal Roofs**

Learning Units: 1 LU

Course Length: One hour

HSW: No (health, safety and welfare)

Learning Objectives:

- Single-ply thermoplastic roof systems benefits and their use as an aesthetic element to a building
- Simulated metal roof system components and what to look for when choosing the right system
- The history of standing seam metal roofs and their pros and cons as a roof system
- Cost comparison between metal and single-ply systems on different types of roof designs

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Course Name: **Exploring Concrete Roof Deck Moisture Issues**

Learning Units: 1 LU

Course Length: One hour

HSW: No (health, safety and welfare)

Learning Objectives:

- Review past and present construction practices where the roof deck is structural concrete, with the emphasis on the effects of excess water in the roof system.
- Point out the difference between normal and lightweight structural concrete as well as their different curing and drying times?
- Discuss different techniques with new construction and re-roofing. Which technique should be used when installing a roof system over a concrete deck?
- Study the standard test methods available to determine the amount of moisture that may be present in the concrete.

Course Name: **Solar Roof Systems – The Good, The Bad and the Ugly**

Learning Units: 1 LU

Course Length: One hour

HSW: No (health, safety and welfare)

Learning Objectives:

- What are some common problems that may be encountered with solar roof installations.
- What information should you know about your building/roof to determine if your facility is suitable for rooftop photovoltaics.
- Important questions you need to ask the solar installer before you decide on a system.
- Does my roof warranty cover a solar roof installation and if not, what can I do
- New developments in the industry that can eliminate most if not all of the concerns around a solar roof installation.

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All Courses:

How Taught: Courses are given in person as PowerPoint presentation. Actual product samples are available to demonstrate on request.

A/V Needed: Electrical power and screen for PowerPoint presentation. (the CES facilitator supplies the laptop and projector)

Target Audience: Architects, consultants, engineers, specifiers, etc.

Cost: N/A; there is no charge to bring this program to your firm or chapter meeting.

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