



AIA CES APPROVED SEMINARS





Tremco CPG Inc. is a passport provider of AIA/CES programs. Provider number: J157

The Roofing and Building Maintenance Division of Tremco Construction Products Group offers AIA CES approved seminars, a number of which are also approved by the International Institute of Building Envelope Consultants (IIBEC). Programs discuss technical advances and construction practices that can help achieve greater building performance, sustainability and energy requirements. Our field advisors can present these courses to small groups of architects/specifiers at association meetings or their offices. These seminars provide one HSW Learning Unit (except as noted) and may provide additional credits, as indicated.



To schedule a Tremco-sponsored AIA CES approved seminar, please scan this QR code to find a Tremco Roofing field advisor near you, call us at 800.852.6013, or email us at

<https://www.tremcoroofing.com/contact/>.

CATEGORY	COURSE TITLE	COURSE NO.	DESCRIPTION
GENERAL ROOFING	Roofing Options	TR1 (2023)	This course is a review of the many different roof system options available to the designer. It provides a basic examination of system strengths and weaknesses, life cycle expectations, energy conservation impacts and other sustainable considerations.
	The Importance of Quality Detailing Note: 1 IIBEC CEH	TRM002 (2020)	A discussion of the complexities of flashing details as they pertain to different roofing systems. This presentation provides procedures on how to improve the quality of the roofing system details by being code compliant and making other upgrades to the specifications.
	Job Site Inspection	TRM016 (2023)	An introduction to Job Site Inspections. Participants will gain a working knowledge of the integral parts of effective inspections; understand the value of inspections and their relation to a quality roof system; and learn how to ensure the quality of a roof installation.
	Roof System Diagnostics	TRM032 (2020)	This presentation will describe the harmful effects of wet insulation in a roof system and the best methods for detecting moisture in a roof. The different diagnostic tools will be covered as well as the correct method of use for the different types of roof systems. Additionally, all the criteria for providing a comprehensive diagnostic roof system evaluation will be reviewed.
	Cooperative Purchasing Contracts Note: 1 Learning Unit only, no HS&W LU	TRM038 (2020)	The purpose of this seminar is to educate the Design Professional about Cooperative Procurement Contracts that education and other public agency clients utilize to purchase construction materials and/or services. These entities and their contracts are growing in number and satisfy bid law requirements in many states. Includes: the different types of cooperative contracts the Design Professional may encounter, how this method of purchasing can be of benefit to the Design Professional's relationship with existing clients, and how to utilize these contracts for business development.
	Codes and Approvals	TRM042 (2020)	The purpose of this seminar is to educate the Design Professional about how codes and approvals both govern and improve the quality and performance of a specified roof system. It reviews the International Building Code (IBC), International Energy Conservation Code (IECC), Energy Star Program, wind uplift considerations, Underwriters Laboratories (UL), and Factory Mutual (FM) requirements that pertain to the building envelope.
	Roof Warranties	TRM046 (2020)	Roofing systems are one of the few commercial construction building assemblies offered with a long-term warranty. Design professionals and building owners must be aware of what is covered, and not covered, by a roof warranty as well as be familiar with the different types of warranties, terms and conditions, and any owner requirements. Attendees will be introduced to the Uniform Commercial Code (UCC) and an important bulletin from the National Roofing Contractors Association (NRCA). Methods for specifying high performance, long-lasting roof membrane and flashing systems will be explained. Risk mitigation with regards to roof design and installation will also be discussed.
TRADITIONAL ROOF MEMBRANES	Modified Bitumen Roofing	TR3 (2023)	An introduction to modified bitumen roofing systems; Provides a basic examination of system strengths and weaknesses, life cycle expectations, energy conservation impacts and sustainable considerations.
	Single Ply Roofing Note: 1 LU/HSW and 1 IIBEC CEH	TR4 (2023)	An introduction to single ply roofing systems; Provides a basic examination of system strengths and weaknesses, life cycle expectations, energy conservation impacts, and sustainable considerations.

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TRADITIONAL ROOF MEMBRANES (CONTINUED)	Modified Bitumen Roof System Field Inspection	TRM019 (2020)	An on-site field inspection of a modified bitumen roof system to visually identify the different types of MB membranes; understand the difference between NRCA recommended details and field fabricated details; and understand the complexities of meeting code requirements and good roofing practice.
	Single Ply Roof System Field Inspection	TRM020 (2020)	An on-site field inspection of a single ply roof system to visually identify the different types of single ply membranes, components and attachment methods; understand the difference between NRCA recommended details and field technical details; and understand the complexities of meeting code requirements and good roofing practice.
	Evolution of Standing Seam Metal Roofing	TRM036 (2020)	This course covers the history of standing seam metal roofing. It also describes in detail the many types of standing seam metal roofs, when each is applicable, how to specify each and avoid the pitfalls of poor design.
	How to Recover an Existing Sloped Roof Using a Structural Standing Seam Roof System Note: 1 LU/HSW and 1 IIBEC CEH	TRM037 (2020)	This course is a discussion about the many benefits of a recover solution of existing sloped roofs with structural standing seam roof. It covers the different types of roofs that can be recovered, how to design a system to avoid common pitfalls, and the economic benefits of a structural standing seam recovery roof.
RESTORATION AND NEXT GENERATION ROOFING	Fluid Applied Roofing Systems Note: 1 LU/HSW and 1 IIBEC CEH	TRM028 (2020)	Fluid applied roofing systems are excellent choices for restoring degraded but still functioning roofs; they are also applicable for new construction. This course defines what "fluid applied" means. It also describes the different types, uses, and benefits of fluid applied roofing systems, including their ease of application, their potential for improving a facility's sustainability, and their flexibility for use as a flashing system.
	Roof Preservation: A Sustainable Option Note: 1 LU/HSW and 1 IIBEC CEH	TRM029 (2020)	This course is a discussion about extending the service life of an existing roof through restoration. We will explore the options and materials available and identify which types of roofing systems are best candidates for roof restoration. This course also delves into the economics and environmental benefits of roof restoration.
	Roof Restoration Systems Field Inspection	TRM039 (2020)	This course is a field discussion about how various types of roofing systems are restored and preserved. The course will explain different types of roof system diagnostic testing, including review of a thermal imaging/nuclear scan report. Various types of roofing membranes and their applicable restoration solutions will be discussed, as well as how to detail common roofing conditions. Lastly, attendees will learn how quality control inspections are conducted and what to be aware of regarding long-term, full systems warranties.

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RESTORATION AND NEXT GENERATION ROOFING (CONTINUED)	Fluid Applied Roofing Systems Field Inspection	TRM040 (2020)	This course is a field discussion about how fluid applied roof membrane systems are installed. This course will review different configuration options for fluid applied roofs, including different overburden options. Fluid applied roof membrane technologies will also be discussed. The course will conclude with a comprehensive discussion of the advantages and disadvantages of fluid applied roof membrane systems.
	Rooftop Renaissance	TRM043 (2020)	The purpose of this seminar is to educate the Design Professional about additional uses or commercial roofing systems. Every day, we count on roofs to provide a dry, leak-free environment, but what if roofs can do more? In today's rapidly evolving environment, could the roof be the unsung hero in helping building owners meet emerging regulatory demands, as well as be utilized for sustainable gains? Consider the millions and millions of square feet of roofing installed, maintained and repaired on an annual basis. This program discusses practical strategies to approach roofing needs with a "higher purpose".
SUSTAINABILITY	Vegetated Roof System Assembly Design <small>Note: 1 LU/HSW and 1 IIBEC CEH</small>	TRM033 (2020)	This course is a discussion about the complexities of vegetated roofing systems. This presentation walks through the typical components of a functional green roof system and provides the procedures on how to improve the quality of vegetated roofing system designs by focusing on detailing and performance.
	Roof Recycling and Landfill Diversion	TRM035 (2020)	Over 8 million tons of roofing tear-off waste is dumped in the US landfills each year. Most major metropolitan areas now have mandatory recycling of construction and demolition waste. Corporations are increasingly moving towards building designs that include recyclable, or zero-waste materials. This presentation will assist designers in navigating zero landfill and recycling projects for new construction and retrofit commercial roofing systems.
	Vegetated Roof System Assembly Field Inspection	TRM045 (2021)	This course is a field discussion and observation regarding the design and proper installation of vegetated roofing (green roof) systems. Attendees will see the components used in a high-performance vegetated roof system and review typical installation details. Attendees will learn the pros and cons of various types of roofing and waterproofing membranes used underneath vegetated roofing systems and how to ensure the entire assembly lasts beyond the specified warranty. Vegetation, soil, and drainage options will also be addressed as well as preventative maintenance requirements.
	Green Roof Failures...What's To Blame?	TRM048 (2022)	This course is a discussion about the complexities of vegetated roofing systems. This presentation walks through the potential pitfalls in green roof design, construction and maintenance. It will focus on best management practices used for long term success.
BUILDING ENVELOPE	Facility Asset Management	TR8 (2023)	The Facility Asset Building Envelope Management presentation will help you eliminate small problems such as air & water leaks and minor imperfections before they become expensive issues that require major repair or replacement. By employing a proactive asset management program, you can significantly extend the service life of your roofing and building envelope, lower your total facility management costs, and reduce energy consumption.
	Building Air Leakage and Effects on the Building Envelope	TRC002 (2020)	This presentation is for architects and other design professionals interested in increasing their knowledge of the application and use of air barriers in the building envelope of commercial and multi-family residential buildings. Researchers, architects, and code writers have shown that attention to specific details in both new and retrofitted envelopes result in better performing buildings with better comfort and long durability as well as lower energy consumption.

CATEGORY	COURSE TITLE	COURSE NO.	DESCRIPTION
BUILDING ENVELOPE (CONTINUED)	Maintaining Building Envelope Integrity	TRM026 (2020)	A review of water entry points in the building envelope; provides a basic review of often overlooked areas including coping joints, porous/deteriorated masonry walls, thru-wall construction, wall louvers, window & door openings and HVAC entry points.
	Designing Safety Solutions	TRM031 (2020)	This course is a review of rooftop safety, hazards, laws and codes. The aim is to develop and reinforce general awareness of the risks that can be alleviated with properly designed rooftop safety solutions.
	Assessing & Maintaining Roofing and Building Envelope	TRM034 (2020)	Commercial roofing systems and roofing details can be very complex and difficult to properly maintain. Regular inspections and preventative maintenance can make all the difference in keeping these expensive assets performing well, even beyond their warranty. We will review possible water infiltration points in the building envelope and provide a basic review of often overlooked areas including coping joints, porous/deteriorated masonry walls, flashings, counterflashings, window and door openings, and HVAC penetrations. Attendees will learn how to perform basic roof inspections and understand the different types of diagnostic tools used to discern roof problems.
	Assessing Building Connectivity Through Drone Technology	TRM044 (2021)	The purpose of this seminar is to educate the Design Professional about the rapid advancement of drone technology and its impact on the Building Sciences. Drone technology provides Design Professionals with the ability to remotely sense building envelope connectivity allowing for greater long-term performance. This leading-edge technology carries advanced high-resolution and thermal cameras, providing vantage points unachievable through traditional methods. The result is new, easily acquired and robust facility data. This presentation covers the latest in drone technology, building science applications & case studies, safety, privacy and regulatory elements.
	Indoor Air Quality Matters – The Importance of Baseline IAQ & Clean Air Distribution Systems for Healthy Buildings & Ventilation	TRM049 (2022)	Through proper diagnostics, a baseline understanding of the condition and performance of a mechanical and air distribution system can be established. From this baseline, an informed plan can be developed to clean, restore and maintain the HVAC system to supply healthy, pathogen-free indoor air quality.

Tremco Construction Products Group brings together the Commercial Sealants & Waterproofing and Roofing & Building Maintenance divisions of Tremco CPG Inc.; Nudura Inc.; WTI/Pure Air Control Services; Prebuck LLC; Willseal; Weatherproofing Technologies, Inc.; Weatherproofing Technologies Canada, Inc.; Pure Air Control Services, Inc.; and Tremco Barrier Solutions, Inc.

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