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Vendor	Topic	Overview/Summary	Credits
Florida Tile	The Timeless Look of Natural Stone	<p>Durable natural stone tile has been used for centuries as a quality finish in buildings. Stone is used in a variety of applications from rustic cabins to minimalist modern interiors and can be specified in many sizes, shapes and colors. From sedimentary to metamorphic, this presentation reviews the differences between sedimentary, igneous and metamorphic stone products including the differences between travertine and marble. An overview of numerous finishes, installations and appropriate maintenance techniques will provide information on how to select the right stone for any surface. Honed, tumbled, polished, split faced, brushed are just some of the finishes explained and illustrated in this presentation. This overview demonstrates why stone has numerous environmental benefits to architects who design buildings that are long lasting.</p> <ul style="list-style-type: none"> • Distinguish between different types of stone and how they are formed • Discuss methods of stone finishing that gives different surface looks. • Explain the basics of selecting, installing and maintaining different types of stone. • Specify the use of stone as an environmental choice for green buildings. 	1.00 HSW
Florida Tile	Know your Porcelain	<p>Porcelain tile is beautiful, strong, durable and an ideal surface in commercial as well as residential applications. Certified porcelain excels as a versatile finish material both indoors and out from kitchens to baths, poolside to hospital hallway. Porcelain tile meets universal design and this presentation will review the latest information on using the dynamic coefficient of friction (DCOF) vs. the static coefficient of friction (SCOF) for tile surfaces that meet ADA criteria. Architects will review the manufacturing of tiles, the use of recycled content, tile grading, markings and tile applications. Numerous examples of the different types of porcelain will expand the architect's design toolkit. Mastering the art of selecting and specifying porcelain tile, architects can comfortably choose porcelain tile to provide durability and sustainability to their projects.</p> <ul style="list-style-type: none"> • Define what makes a tile porcelain and what "Certified Porcelain" means • Identify different types of porcelain tiles • Discuss how porcelain tiles are manufactured • Analyze the technical specifications listed for porcelain tile in marketing materials 	1.00 HSW

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Florida Tile	Tile is Green	<p>As sustainability has become an important consideration to consumers and architects who are designing for better environmental stewardship, green building programs have emerged to certify which buildings meet specific sustainable design goals. Materials used in these buildings are an important part of sustainable design as they can contribute to good indoor air quality and energy efficiency. The focus on tile in this presentation clarifies the many ways that this product can contribute to a green building certification in such programs as USGBC LEED®, NAHB Green Building Standard, and the ICC's International Green construction code. Learn about the ANSI (138.1) Green Squared standard for defining a green tile – developed by the North American Tile Council with the input of designers, architects, green professionals, end users, and manufacturers. Along with a review of the latest sustainable manufacturing practices, this presentation illustrates how the selection of tile as a green material is an easy choice for design professionals.</p> <ul style="list-style-type: none"> • How sustainable building certifications like LEED view tile • The sustainable attributes of tile and modern tile manufacturing facilities • Questions you should ask about the companies you are considering • Green certifications to look for when specifying tile 	1.00 HSW
Florida Tile	Healthy Indoor Air by Design	<p>This basic level course is designed to communicate the importance of indoor air quality (IAQ) and empower architects, designers and specifiers to employ strategies to improve the IAQ in the spaces they are creating. The course includes background on the impact of indoor air pollution on human health and economics. Participants will learn to identify sources of indoor air pollutants, illustrated by several case studies that highlight the effects of controlling, versus not controlling, IAQ at the design phase of building construction. Emphasis will also be placed on how participants can incorporate good IAQ principles into sustainable building projects.</p> <ul style="list-style-type: none"> • Understand the impact of indoor air pollution on human health • Identify sources of pollutants; view several case studies of the effects of controlling versus not controlling indoor environmental quality at the design phase of building construction • Learn the value of selecting certified low emitting products as a proven method for controlling VOC emissions that invade indoor environment 	1.00 HSW
Johnsonite	<p>The Language of Color</p> <p>AIA Course # COLORS</p> <p>IDCEC Course # CC-102010-XXXX</p>	<ul style="list-style-type: none"> • What is color? • How the human eye perceives color • How our perception of color influences the colors we see • The language of color: notation, order or both • Numerical standards + colorimetry = a common and precise color language 	<p>AIA: 1.00 LU IDCEC: 0.1 HSW</p>

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Johnsonite	Sustainability: An Everyday Practice, Not Just an Idea AIA Course # SUST15 IDCEC Course # CC-102323-XXXX USGBC # 0090004978	Describes key criteria for comparing flooring products and selecting products that address the Triple Bottom Line, to minimize environmental impact, maximize economic benefits, and create a people-friendly space that increases health and productivity. The program will also address the sustainability advantages of resilient flooring applications. <ul style="list-style-type: none"> • Broaden the understanding of Triple Bottom Line and Balanced Choice • How to focus on Reduce-Reuse-Recycle when considering flooring selections • How flooring relates to Health-Safety-Welfare in the context of sustainability • How sustainable flooring choices impact the bottom line • Challenges when selecting sustainable flooring • Clarification of organizations and certifications working to compare/contrast green products • Review sustainability advantages of resilient flooring products 	AIA: 1.00 LU/HSW IDCEC: 0.1 HSW_Sustainability USGBC: 1.00 GBCI CE Hour
Johnsonite	New Sustainable and Aesthetic Options in Finishing Borders (Wall Base) AIA Course # FINBORDERS14 IDCE Course # CC-102324-XXXX	This course will cover wall base options that provide the desired aesthetic, performance ability, budgetary demands and that can contribute toward the project's sustainability objectives, wherever the walls meet the floor.	AIA: 1.00 LU IDCEC: 0.1 L
Johnsonite	Transparency in Sustainability AIA Course # TRANS14 IDCEC Course # CC-103381-XXXX USGBC # 920000071	Explain the Environmental Product Declarations (EPDs) and material disclosure tools and their limitations. Participants will learn to identify certifications of resilient flooring and understand EPD's and disclosure tools along with their limitations and health hazards. <ul style="list-style-type: none"> • Identify the certifications that verify a resilient flooring product is compliant with the emissions testing standard referred to as CA 01350 • Explain the differences between Environmental Product Disclosures (EPDs) and various material disclosure tools • Describe the current limitations of both EPDs and material disclosure tools in being used as a platform to compare the environmental impact or health hazards represented by different products • Recognize what certifications for resilient flooring products are required to satisfy certain credits in LEED 2009 and what new type of disclosure format has been approved as a way to satisfy certain requirements in LEED v4 	AIA: 1.00 LU/HSW IDCEC: 0.1 HSW_Sustainability USGBC: 1.00 GBCI CE Hour

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Johnsonite	Designing Memory Care Facilities AIA Course # MEMCARE14 IDCEC Course # CC-103671-XXXX	<ul style="list-style-type: none"> • Explain how design can better accommodate the memory loss, cognitive decline and behaviors commonly caused by Alzheimer's disease and dementia and improve overall quality of life for residents with these conditions • Equip interiors to manage potential environmental triggers, such as light and sound, to reduce agitation and aggressive episodes experienced by those with Alzheimer's disease and dementia • Design spaces so that they are more easily seen and understood by residents with Alzheimer's disease and dementia • Create interior environments that promote safe ambulation and exploration 	AIA: 1.00 LU/HSW IDCEC: 0.1 HSW
Johnsonite	The New Paradigm in Healthcare AIA Course # PARADIGM15 IDCEC Course # CC-104379-XXXX	<ul style="list-style-type: none"> • Learn about the legislation and compliance changes facing today's healthcare business • Discover what patient centered care means to both healthcare providers and healthcare consumers • Explore the changes in healthcare design, property development and construction • Discuss the important role that group purchasing organizations now play in the healthcare supply chain • Review the Triple Aim and learn how it's relevant to different client audiences • Learn how flooring supports patient centered care in healing environments 	AIA: 1.00 LU/HSW IDCEC: 0.1 HSW
Johnsonite	Improving Indoor Air Quality in the Built Environment AIA Course # IAQ15 IDCEC Course # CC-104378-XXXX USGBC Course # 0920005159	<ul style="list-style-type: none"> • Understand how IAQ is measured and the impact it has on occupants • List contributing factors to poor IAQ both during construction and after occupancy • Discuss how improving IAQ requires a specific strategy that includes material and product selection • Explain the importance of selecting flooring materials and systems that promote improved IAQ 	AIA: 1.00 LU/HSW IDCEC: 0.1 HSW USGBC: 1 GBCI CE Hours
Mapei	Multi-Purpose Thin-Set Mortar Myth MAP001	An explanation of the differences in thin-set mortars, and how they apply to ANSI A118.1 and ANSI A118.4. Participants will also be taught the difference between acrylics and why they are needed for various types of ceramic tile and stone installations.	1 LU & 1 HSW Credit

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Mapei	Concrete Restoration Basics MAP003A	An explanation of concrete and the thought process of diagnosing, repairing, protecting and enhancing concrete structures. The program will address the basic components of concrete, how varying components can drastically affect the finished products, and the effects of the environment and installation practices on the quality and longevity of concrete.	1 LU & 1 HSW Credit
Mapei	General Surface Preparation MAP005	An explanation of industry standards and guidelines regarding substrate preparation for installation of concrete-based underlayments and toppings. These may be finished floor systems (toppings) or be part of a system prior to subsequent installations of ceramic, resilient, VCT or other finished floor installations. Participants will be exposed to the correct process of inspecting a substrate to determine required preparation (repairs), moisture vapor emission analysis and testing methods, and methods of mechanical preparation prior to the installation of an underlayment or topping.	1 LU
Mapei	Grouting for Success MAP006	An explanation of the differences in grouts, and how industry standards apply to them. Participants will also be taught the difference between Portland cements, HCT technology and epoxies, and why they are needed for various types of ceramic tile and stone installations.	1 LU

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Mapei	Waterproofing: Key to Avoiding Costly Failures! MAP024	<p>A discussion about the various types, methods and situations where waterproofing will protect and enhance tile and flooring installations. Also, a look at the various failures that can occur when waterproofing or moisture control is neglected or incorrectly installed in residential and commercial tile projects, including interior/exterior floors and walls, swimming pools, balconies, plaza decks, facades and baths.</p> <ul style="list-style-type: none"> • Understand why many failures occur • Learn how waterproofing and moisture mitigation requirements vary • Discover solutions for common applications 	1 LU & 1 HSW Credit
Mapei	Moisture and Concrete Floor Slabs: Health, Safety and Cost-Effective Solutions MAP025	<p>An in-depth understanding of moisture issues in concrete slabs and the deleterious effect of a high moisture vapor emission rate (MVER) on flooring finishes. The presentation will address “sick building syndrome” caused by excessive concrete moisture vapor emissions; the various industry-approved methods for testing of MVER and for generating accurate data; conditions that generate excessive moisture in slabs and how to resolve them; how MVER barrier technology works, and how and when to specify it; and ICRI’s certification program for moisture-testing technicians – the only certification program in the industry.</p>	1 LU & 1 HSW Credit
Mapei	Self-Leveling Underlayments and Toppings MAP026	<p>An in-depth introduction to the various methods of surface preparation required for installing self-leveling underlayment materials for concrete; the various industry standards of testing for moisture vapor emission rate (MVER); and the means for becoming certified as a moisture-testing technician. The presentation also will include an introduction to the various types of self-leveling underlayments, overlayers and decorative toppings for interior concrete slabs.</p>	1 LU & 1 HSW Credit
Mapei	Crack & Sound Membranes MAP029	<p>An in-depth introduction to the approved industry standards for Crack Isolation and Sound Control products, how to choose the membrane most appropriate for application and how to avoid common installation mistakes and failures.</p>	1 LU & 1 HSW Credit
Mapei	When Epoxy Grout is a Better Choice MAP030	<p>An in-depth introduction to epoxy grout. Participants will be able to tell the difference between epoxy grout and polymer-modified, portland-cement grout. Participants will also have a good understanding about industry standards that apply to each type of grout and where to make the best use of epoxy grout.</p>	1 LU Credit

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Mapei	Parking Deck Systems MAP034	Participants will be able to understand the basics of elastomeric waterproofing coatings and identify the basic preparation and repairs needed before application of the polyurethane system. Participants will also be able to identify the basic materials and methods used to install two component polyurethane systems and identify common causes and remedies during the application of a polyurethane deck coating.	1 LU / HSW Credit
Mapei	Decorative Cementitious Toppings MAP035A	Participants will learn where decorative toppings can be used in place of removing existing slabs and understand the effects the environment and installation practices have on the quality and performance of the topping. Participants will also learn about the low VOC product application and care and maintenance of the topping.	2 LU / HSW Credits
Mapei	Decorative Cementitious Toppings MAP036A	Participants will learn where decorative toppings can be used in place of removing existing slabs and understand the effects the environment and installation practices have on the quality and performance of the topping. Participants will also learn about the low VOC product application and care and maintenance of the topping.	1 LU / HSW Credit
Mapei	TCNA and ANSI: Specifying Successful Tile and Stone Systems By The Book MAP040	A review of Standards and Resources for the tile industry (TCNA - Tile Council of North America and ANSI - American National Standards Institute) with special focus on understanding coordination of the documents; tile setting materials and application methods; learning how the Standards are changed and frequency; why these changes can benefit your project specification and using TCNA and ANSI to improve the quality of your project specifications.	1 LU / HSW Credit
Mapei	Sodium Bentonite Clay Waterproofing MAP041	An in-depth explanation of below-grade waterproofing and, in particular, sodium bentonite clay waterproofing membranes. Participants will learn about the various substrates encountered, jobsite & substrate preparation, bentonite waterproofing membrane installation and installation details.	1 LU / HSW Credit
Mapei	Self-Adhered, Rubberized-Asphalt Waterproofing MAP042	An in-depth explanation of below-grade waterproofing and, in particular, self-adhered rubberized-asphalt waterproofing. Participants will learn about the various substrates encountered, jobsite & substrate preparation, self-adhered rubberized asphalt waterproofing membrane installation and installation details.	1 LU / HSW Credit

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Mapei	Introduction to Paint & Coatings MAP043	At the end of this program participants will be able to identify basic paint components and have an understanding of their impact on quality and function; differentiate the performance and aesthetic advantages of various coating finishes; understand the functional differences in a coating as a result of changes in chemistry; identify some of the latest innovations and technological advances in the coatings industry and their impact on environmental sustainability.	1 LU Credit
Mapei	Concrete Deterioration & Impact on Coatings Performance & Design MAP044	At the end of this program, participants will be able to: identify environmental and service related causes of concrete deterioration and the resultant effect on the structure; understand the objectives of specifying protective coatings for concrete and the potential contribution this has on environmental and economic sustainability; identify specific performance measures of coating systems and understand how these can counteract the environmental effects of concrete deterioration; compare specific performance data points to assess absolute and relative performance of a coating system in theory and in practice.	1 LU / HSW Credit
Mapei	How Flat is Flat MAP045	This presentation will examine trends in tile and construction practices that impact substrate flatness, review flatness requirements found in industry documents, look at methods for obtaining flatness requirements, understand how self-levelers work and learn the basics of self-leveler application.	1 LU Credit
Mapei	Hospitality MAP046	This presentation is primarily based on the proper installation of tile in Hospitality projects. The Learning Objectives are: 1) Consider the different functions in a hotel and how the finish demands vary. 2) What are the important installation considerations of the different environments? 3) What TCNA installation methods make sense for the different areas of use and how do you specify them? 4) How can Environmental Exposure Classifications benefit your hospitality finish specifications?	1 LU / HSW IDCEC
Mapei	LHT Mortar and ANSI Mortar Designations MAP047	This session will provide a Manufacturer perspective on tile industry standards development and the new mortar classifications. We will discuss ISO designations and the new ANSI mortar designations for; non sag (T), fast set (F), extended open time (E) and the proposed new large and heavy tile mortar (H) and how can it benefit the design professional and the tile contractor in the field? What was wrong with Medium Bed? Where did the Large and Heavy Tile mortar come from?	1 LU / HSW IDCEC
Mapei	FRP Strengthening: Strengthening Concrete Structures with Fiber-Reinforced Polymers MAP049	This course will help participants to understand the basics of FRP materials and their behavior, when and where it is appropriate to utilize for a strengthening application and the procedure for properly installing it.	1 LU / HSW Credit
Mapei	Thin Polymer Bridge Deck Overlay MAP050	This session will give participants an understanding of the differences in ASTM C881 specification requirements, the use of epoxy overlay to rehabilitate structurally sound bridge decks in place of demolishing and rebuilding, provide a skid resistant surface to worn concrete decks to provide safety and lastly will incorporate material requirement as well as industry requirements for a successful project	1 LU / HSW

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Mapei	Tile & Stone Installation Systems MAP051	This course will help participants understand the industry standards and guidelines regarding the substrate preparation for installation of concrete based underlayment's and toppings. They will also gain exposure to the correct process for inspecting a substrate to determine required preparation, moisture vapor emission analysis/testing methods and mechanical preparation prior to installation of underlayment and toppings, approved industry standards for crack isolation and sound control products and the differences in mortars and grouts and how the industry standards apply to them.	1 LU / HSW Credit
Mapei	Movement Joints in tile & Stone Installation MAP052	This course will help participants in identifying and specifying proper treatment of movement joints in tile and stone installations.	1 LU / HSW Credit
Mapei	Healthcare - Floor Finished By Design MAP053	This presentation will explore: <ol style="list-style-type: none"> 1) A healthcare facility is a complicated structure with many different types of flooring and adhesive needs. 2) The healthcare environment can apply pressure, point load and weight causing failure and repairs just because the wrong adhesive was selected. 3) The attributes of chemically resistant and sanitary are prized, and achievable, in a healthcare floor finish. 4) Healthcare facilities can be demanding and difficult to specify adhesives and flooring for. Yet they do not have to be that difficult, thanks to proper education and the right consultants 	1 LU / HSW IDCEC
Mapei	Exterior Tile Installations MAP054	This session will discuss industry standards and guidelines regarding exterior tile installations. Participants will be shown how to plan for a successful installation. They will learn how to specify industry standards that are relevant to exterior installations. Participants will also have a good understanding on how to select proper materials for the job while taking environmental conditions into consideration.	1 LU / HSW IDCEC
Mapei	Gauged Porcelain Tile Systems MAP055	In this session participants will learn about training programs that are available for help and education, for workers in the tile industry. In addition, participants will learn how to use the proper gauged porcelain tools, troweling, lippage control and dry installation methods. They will gain an understanding of the importance of having qualified installers that have gone through a certified training program.	1 LU / HSW IDCEC
Metropolitan Ceramics	Choosing the Right Flooring for Demanding Environments	Using the appropriate floor covering for demanding environments, like commercial kitchens, is the basis of the course. Participants learn what a demanding environment is, examine available flooring options, and determine which will succeed. The course compares options, discusses manufacturing processes, reviews raw materials and shows installation examples. At the conclusion of the course, attendees are better able to choose the correct flooring for demanding environments.	1 LU Credit

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Ragno	Advanced Ceramic Tile Methods, Standards & Materials Course Number: IDCEC 4254	Presentation Highlights <ul style="list-style-type: none"> • Industry Standard Publications • Manufacturing Methods • New Technologies • Testing Data • Types of Ceramic Tile • Setting Methods and Materials <ul style="list-style-type: none"> • Understand the types of ceramic tile products available and their specific intended usage • Reference industry publications and standards; understand test methods and how the results influence tile selection • Understand new industry guidelines for the installation of large format tile • Show increased awareness of installation products and how they are determined by the substrate 	1 LU/HSW Credit
Ragno	Course Number: MAR001	<p>The ventilated wall is an external cladding system composed of an outer skin of large format tiles and an airtight, insulated backing wall separated by a ventilated air space, which is applied to the outside of the building sheathing. While fairly new to the North American market, this technology is widely used in Europe and Asia for both retrofits and new construction, principally offering increased thermal efficiency, greater sound insulation and lower energy costs.</p> <ul style="list-style-type: none"> • List the key components of ventilated wall systems and identify how each contributes to reduced building energy consumption • Describe a situation leading to thermal bridging and how a ventilated wall system would eliminate the thermal bridging • Describe how the placement of the insulation layer is related to condensation and thus mold and indoor air quality issues • Discuss the qualities of porcelain stoneware tile and how it could contribute to a sustainable design. 	1 LU Credit

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