Lunch and Learn Courses Available

All Courses provide 1 AIA/HSW CE Learning Unit

InfoSpec, Inc

Contact Course Sponsor to Schedule Your Lunch and Learn Today!

Please look for these Special Designation Icons:

	**Provides 1 AIA, Health Safety Welfare, Sustainable Design Learning Unit**
	**Registered with USGBC's Education Provider Program**
	**Provides 1 AIA, Health Safety Welfare, Accessibilities Learning Unit**

Special Requirements

	Course Sponsor	Course #	Course Title	
	SpexPlus, Inc	ISP00A	Writing Specifications for Sustainable Projects	
Course Description			**1 AIA HSW/SD LU**	**888.877.7739**

Upon completion of this course, you will be able to:

1. Compare and contrast the differences between sustainable project specifications and those used for traditional projects.
2. Describe USGBC's LEED rating system and other sustainable requirements as they relate to project specifications.
3. Explain how to locate sustainable product information and ascertain whether or not it is accurate.
4. Define greenwashing and list common greenwashing practices.
5. Properly prepare specifications for LEED and other sustainable projects.

Course Sponsor	Course #	Course Title	Webinar
Archline	WAR00A	Wide Area Networks for CAD-BIM CD's Drafting Production	
Course Description		**1 AIA HSW LU**	**P: 214.353.6929** **Archline@Archline.com**

Upon completion of this course, the design professional will be able to:

1. Compare and contrast a typical design firm's internal resource utilization to that of one utilizing wide area networks for construction drawings.
2. Explain how a wide area network communication process works.
3. Describe how to develop construction drawings via a case study on collaboration.
4. Discuss professional and business issues associated with wide area networks.

General Requirements (Division One)

SD	Course Sponsor	Course #	Course Title	
	Structural Insulated Panel Association	SIP01B	Designing With Structural Insulated Panels	
Course Description			**1 AIA HSW/SD LU**	**P: 253.858.7472**

Upon completion of this course, the design professional will be able to:

1. Describe and define SIPs and their applications
2. Explain SIP energy strategies
3. Illustrate SIP design and engineering methods
4. List and describe current industry assembly standards

Site Construction (Division Two)

SD	Course Sponsor	Course #	Course Title	
	Invisible Structures	ISI02B	Green Solutions For Parking, Paving, and Drainage Systems	
Course Description			**1 AIA HSW/SD LU**	**P: 800.233.1510**

Upon completion of this course, the design professional will be able to:

1. Explain the differences between dense and porous pavements
2. Cover the brief history of the porous pavement industry
3. Detail both the benefits and limitations of using porous pavement over conventional paving systems
4. Identify the basic components of a paving system
5. Explain the benefits of flexible plastic paving systems
6. Show case studies of successful porous pavement installations
7. Give a brief explanation of how to install and maintain different porous paving systems
8. Prepare you to choose right system for your needs

Concrete (Division Three)

Course Sponsor	Course #	Course Title
Lone Star Stone	ILS03B	Full Dimensional Manufactured Stone Veneers: Manufacture, Application, Installation
Course Description		**P: 254.694.6613**

Upon completion of this course, the design professional will be able to:

1. Understand what full dimensional manufactured stone is
2. Have a basic knowledge of the manufacturing process of full dimensional stone veneers
3. Become aware of the similarities and differences between full dimensional manufactured stone veneer and thin manufactured stone veneer
4. Understand the advantages of full dimensional manufactured stone veneer compared to quarried stone
5. Become familiar with the installation of full dimensional manufactured stone veneer as compared to natural stone
6. Understand the design versatilities of full dimensional stone veneer

Course Sponsor	Course #	Course Title
Productions Team, Inc. DBA Green Umbrella	IPT03A	The Basics of Polished Concrete
Course Description		**P: 816.448.2036**

The design professional will have a general understanding of the following:

1. What Polished Concrete Is
2. How it is :
   - Achieved Mechanically
   - Enhanced Chromatically
   - Protected Chemically
3. Why Specify Polished Concrete?
   - Versatile
   - Economical
   - Sustainable

Course Sponsor	Course #	Course Title
Lone Star Stone	LSS03A	Manufactured Stone Veneers
Course Description		**P: 254.694.6613**

Upon completion of this course, the design professional will be able to:

1. Have a basic knowledge of the manufacturing process of synthetic stone veneers
2. Become more aware of the similarities and differences between natural stone and manufactured stone veneer.
3. Understand the design versatility of manufactured stone veneer
4. Become familiar with the installation of manufactured stone veneer as compared to natural stone

Masonry (Division Four)

Course Sponsor	Course #	Course Title
Stone Panels, Inc.	STI04B	Light-Weight Honeycomb Reinforced Stone Cladding System FTF
Course Description		**P: 800.328.6275**

This program is designed to educate designers and specifiers in the many aspects of stone panel systems. Upon completion of this course, the design professional will be able to:

1. Understand what a stone panels cladding systems is.
2. How the state-of-the-art wall cladding system incorporates the natural beauty of authentic natural stone reinforced with aircraft quality aluminum honeycomb.
3. The manufacturing process, product capabilities, and installation methodologies of stone panel systems.
4. How you can design and specify lightweight reinforced natural stone wall systems.

Metals (Division Five)

Course Sponsor	Course #	Course Title
CEMCO	CEM05B	Dynamic and Static Head-of-Wall Joint Fire Protection
Course Description		**P: 425.591.4174**

Upon completion of this course, the design professional will be able to:

1. What is a Head of Wall joint?
2. What constitutes a Head of Wall assembly?
3. What information is contained in the heading of a UL listed assembly?
4. Which four standards are measured to determine UL 2079 approval?
5. How do you determine the deflection capacity of joint treatments?
6. What are hourly ratings of joint treatments?
7. What comprises the L-rating of joint treatments?
8. What are joint treatment types and what are the advantages/disadvantages of each?
9. What should Architect, Engineer, and Specification professionals consider when specifying protection of dynamic or static head of wall joints?

Wood and Plastics (Division Six)

SD	Course Sponsor	Course #	Course Title
Arch Wood Protection		AWP06F	How Mold and Mildew Resistant Wood Improves Indoor Air Quality
Course Description			**1 AIA HSW/SD LU** **P: 770.805.3281**

Upon completion of this course, the design professional will be able to:

1. Become familiar with conditions in wood that makes it susceptible to mold and mildew.
2. Understand why interior wood components require protection against mold, mildew, and insects.
3. How to protect a wood based building against mold, mildew, termite, and fungal decay.
4. Understand the potential impact to mortgage and insurance rates with a mold reduction program.
5. Understand act of mold on indoor air quality. (IAQ.)

Course Sponsor	Course #	Course Title	
Columbia Forest Products	CFP06A	Decorative Hardwood Plywood & Interior Air Quality	
Course Description		**1 AIA HSW/SD LU**	**P: 800.637.1609**

Upon completion of this course, the design professional will be able to:

1. A basic review of decorative hardwood plywood
2. Review composite core adhesive options with formaldehyde emission as a focus
3. View formaldehyde through two different perspectives
    a. LEED – Based
    b. Emissions - Based
4. Understand LEED - compliant, no-added-urea-formaldehyde (NAUF) panel constructions
5. Discuss information resources available to support specification of NAUF panel products

Course Sponsor	Course #	Course Title	
Cosentino USA / Silestone	ICS06A	Understanding Recycled Content Surfacing Material	
Course Description		**1 AIA HSW/SD LU**	**Mary Howe P: 800.248.6364**

Upon completion of this course, the design professional will be able to:

1. Describe different recycled surfacing products
2. List the physical properties of vegetable based resin recycled content surfacing products
3. List the recycled materials that go into a recycled surfacing product
4. Compare and contrast certain properties of other surfacing materials to a recycled content solid surface
5. Explain the importance of specifying and using recycled content surfacing products as related to environmental issues
6. Describe how recycled content surfacing materials fit into sustainable design and associated rating systems such as LEED, Cradle to Cradle and GreenGuard

Course Sponsor	Course #	Course Title	
Cosentino USA / Silestone	COS06C	Understanding Quartz Surfacing Material (FTF)	
Course Description		**1 AIA HSW/SD LU**	**Mary Howe P: 800.248.6364**

Upon completing this course, the design professional will have a better understanding of:

1. Understanding of what Quartz surfacing material is
2. What is Quartz?
3. The role Quartz has played in history
4. Where can Quartz be found?
5. The physical properties of Quartz
6. What is the Breton manufacturing process?
7. Differences between acrylic solid surfaces, stone, and Quartz surfaces
8. What you get when you combine Quartz surfacing material, and Microban® antimicrobial material

Course Sponsor	Course #	Course Title
Cosentino USA / Silestone	COS06D	Antimicrobial Material: A Way To Inhibit Mold And Mildew Growth
Course Description		**Mary Howe** **P: 800.248.6364**

Upon completing this course, the design professional will have a better understanding of:

1. What Quartz Is?
2. Advantages Of Quartz Surfaces
3. The Physical Properties Of Mold.
4. Identify And Describe The Ways In Which Mold Effects Health.
5. Identify And Describe The Ways To Prevent Mold
6. Ways In Which A Mold Free Environment Can Be Ensured. (Microban)

Course Sponsor	Course #	Course Title
HB&G	HBG06B	Column Options for the 21st Century FTF
Course Description		**P: 334.670.6512**

Upon completion of this course, the design professional will be able to:

1. Take an in-depth look at the column options of today that can be incorporated into your designs.
2. Explore the manufacturing process of the different column materials.
3. Study the different installation methods.
4. Evaluate the products based on their characteristics, good and bad with loads of application pictures from the field.
5. Discuss how current trends have affected column usage in the construction industry. This will be showcased by some recent market studies and independent tests by our company. Based on this presentation we want to let you, the listener forms your own opinion on the column materials to use for your traditional design elements.

	Course Sponsor	Course #	Course Title
Cox Wood Preserving		IAW06B	Southern Yellow Pine: Sustainability and Applications
Course Description		**1 AIA HSW/SD LU**	**P: 803.614.1355**

Upon completion of this course, the design professional will be able to:

1. Describe SYP's impact on building structures historically, today, and in the future.
2. Define the sustainable attributes of southern yellow pine.
3. Examine SYP sequesters carbon as it grows and creates oxygen.
4. Examine how the by-products and waste of SYP are reusable.
5. Observe SYP farmers and their current planting process.
6. Compare the life cycle assessment with other building materials.

Course Sponsor	Course #	Course Title
Intersurfaces	IIS06A	Innovative Solutions with High-Tech Quartz and Stone Surfacing
Course Description		**P: 418-423-3553 ext. 205**

Upon the completion of this course, the designer will be able to:

1. List the different characteristics and advantages of engineered quartz stone
2. Describe the engineered quartz stone process of fabrication and qualities
3. Identify and compare the different textures and finishes of engineered quartz stone
4. Illustrate a new technique to use natural stone for vertical applications
5. Describe the installation techniques for floor tile installation of engineered quartz stone tiles

Course Sponsor	Course #	Course Title
Nordic Engineered Wood	INW06A	Taming the Wind with Engineered Tall Walls
Course Description		**P: 518.869.9116**

Upon completion of this course, the design professional will be able to:

1. To gain an understanding of common terminology related to tall wall components and tall wall design.
2. To gain an understanding of the International Residential Code requirements relating to tall wall design.
3. To gain an understanding of the unique loading requirements on tall walls and how a tall wall system accounts for these loads in a residential/light commercial structure.
4. To be able to evaluate the features and benefits of 3 tall wall systems: fully engineered proprietary, mixed engineered/dimensional, and fully dimensional.
5. To gain an understanding of appropriate use of design tables and engineering software in the design process.
6. To work through an introductory tall wall design problem using engineering software.

 Course Sponsor	Course #	Course Title
Nordic Engineered Wood	INW06B	Engineered Wood, Sustainability and Green Building Practices
Course Description	**1 AIA HSW/SD LU**	**P: 518.869.9116**

Upon completion of this course, the design professional will be able to:

1. Define and Discuss Sustainability Issues
2. Compare construction materials for “green” compatibility
3. Identify and select various Green Rating Tools
4. Compare/contrast Green Building Programs
5. Evaluate various EWP products based on the deconstruction/reconstruction principle
6. Discuss EWP framing systems recognized as “green” by current Green Build programs.

Course Sponsor	Course #	Course Title	
Sasco Products Limited	ISA06A	Diffusible Wood Preservatives	
Course Description		**1 AIA HSW LU**	**P: 902.468.2126**

Upon completion of this course, the design professional will be able to:

1. Describe the basic nature of wood as a structural material or architectural feature.
2. Explain the vulnerability of wood and list ways of maintaining its integrity.
3. Compare and contrast different wood preservatives and their applications.
4. Define diffusible wood preservatives and describe the diffusion process.

Course Sponsor	Course #	Course Title	
Universal Forest Products, Inc.	UFP06B	Designing Floor Systems with Engineered Wood Joists	
Course Description			**P: 616.365.6608**

Upon completion of this course, the design professional will have a better understanding of the following:

1. Factors for consideration when designing floor systems
2. Appropriate design strategies for code requirements and client satisfaction
3. Types of engineered floor components and their capabilities and limitations
4. Engineering, design and support available from manufacturers

Thermal and Moisture Protection (Division Seven)

Course Sponsor	Course #	Course Title	
Morrison Hershfield Corporation	I07MHA	Controlling Air Leakage in Building Envelope Assemblies	
Course Description			**P: 770.379.8500**

The purpose of this course is to introduce participants to the basics of air leakage control in building envelope assemblies, introduce some common air barrier systems, and review some diagnostic methods for evaluating air leakage in building assemblies

Course Sponsor	Course #	Course Title	
A-Lert Roof Systems	IAL07A	Understanding Retrofit Standing Seam Metal Roof Systems	
Course Description			**P: 830.626.7755**

Upon completion of this course, the design professional will have a better understanding of the following:

1. Basic understanding of Retrofit Standing Seam Metal Roof (SSMR) Systems
    a. The Basics
    b. Roof Design and Layout
2. Installation of a Retrofit SSMR
3. Economic benefits of Retrofit SSMRs
4. Retrofit SSMRs' positive impact on the environment

Course Sponsor	Course #	Course Title
ChemLink, Inc.	ICL07A	Polyether Technology: The Next Generation of Adhesives and Sealants
Course Description		**P: 269.679.4440**

By the end of this program the designer should be able to assess the differences between caulks and sealants. The designer will also gain knowledge and understanding over the following:

1. Understand what poly ethers are
2. Understand the benefits of poly ethers vs. other adhesive and sealant technologies
3. Begin to see the benefit in specifying poly ethers

Course Sponsor	Course #	Course Title
Henkel	IHE07A	A New Approach to Green Building: Caulks, Sealants & Adhesives
Course Description	**1 AIA HSW/SD LU**	**P: 440.937.7297**

Upon completion of this course you will have a better understanding of the following:

1. Identify how adhesives and sealants can contribute to green building practices, specifically LEED and NAHB Certification.
2. List three performance benefits of high-performance, low-VOC adhesives and sealants.
3. Identify the differences between VOC-compliant products and products with low-VOC content.
4. Describe the importance of third-party certification when selecting sealants and adhesives.
5. Describe the benefits of using a series of adhesive and sealant products.

Course Sponsor	Course #	Course Title
Huntsman	IHP07A	Spray Polyurethane Foam (SPF) for Building Insulation
Course Description		**P: 281.719.4079**

At the conclusion of this course the designer should have a general understanding of the following:

1. State the advantages of specifying SPF systems for interior and exterior insulation applications.
2. Compare the characteristics of open-cell SPF and closed-cell SPF
3. Compare the advantages of SPF as an air barrier to other air barrier products
4. Define components and applications of spray polyurethane foam (SPF) systems

Course Sponsor	Course #	Course Title
James Hardie	IJH07A	Climate Zoned Cladding and Contemporary Commercial Solutions with Fiber Cement Siding
Course Description		**P: 800.426.4051**

At the conclusion of this course the designer should have a general understanding of the following:

1. List common selection criteria for various siding options
2. Describe why fire, wind, hail/impact resistance, and other physical properties are important for long term siding performance
3. Define Fiber Cement
4. Describe new climate zoned cladding and why these systems are essential to the longevity of your design
5. Compare and contrast the two FCS cladding climate zones
6. Illustrate new panel cladding and describe how this is helping designers meet emerging demands for contemporary commercial design aesthetics
7. Describe the best practices for cutting fiber cement siding
8. List 6 benefits of fiber cement siding

SD	Course Sponsor	Course #	Course Title
James Hardie		IJH07B	Developing and Building Sustainably with Fiber Cement Siding
Course Description		**1 AIA HSW/SD LU**	**P: 800.426.4051**

At the conclusion of this course the designer should have a general understanding of the following:

1. Define Fiber Cement
2. Illustrate the design decisions that affect enclosure systems
3. List the 4 D's of Wall Design
4. Describe how water management and durability improve longevity of cladding
5. Compare and contrast embodied energy and recurring embodied energy
6. Define Life Cycle Assessment and describe the system analysis parameters
7. Describe climate zoned cladding and list the environmental criteria for each of the zones

SD	Course Sponsor	Course #	Course Title
Metals USA		IMU07A	Profiles & Installation of Stone Coated Steel Roofing
Course Description		**1 AIA HSW/SD LU**	**P: 866.295.9016**

Upon completion of this course, the design professional will be able to:

1. Briefly discuss issues with traditional roofing systems
2. Describe the manufacturing process for stone coated steel roofing
3. List several benefits of utilizing stone coated steel roofing
4. Explain why energy efficiency is critical & what roofing qualities might meet Energy Star's criteria
5. Discuss how incorporating stone coated steel roofing can contribute towards earning points in the LEED rating system
6. Illustrate 3 installation methods and several application types for stone coated steel roofing systems

Course Sponsor	Course #	Course Title
Polyfoam Products, Inc.	IPP07A	A Solution for Tile Roofs: Polyurethane Foam Roofing Adhesives
Course Description		**P: 281.350.8888**

At the conclusion of this course the designer should have a general understanding of the following:

1. Discuss the chemical properties of polyurethane adhesives for tile roofing application
2. Recognize the features and benefits of polyurethane foam adhesives
3. Understand installation procedures for polyurethane foam adhesives
4. Recognize appropriate underlayment substrates
5. Identify industry and code approvals for polyurethane foam adhesives

Course Sponsor	Course #	Course Title
U.S. Ply	IUP07A	Understanding Wind Loads on Roofs & Alternative Uplift Criteria
Course Description	**3 AIA HSW LUs**	**P: 866.787.4759**

At the conclusion of section one of this course you will have a better understanding of the following:

1. Introduction to wind uplift definition and the mechanics of how it operates.
2. Introduce wind uplift effects on roof field, roof perimeter, roof corners.
3. Basic understanding of how wind uplift is determined.
4. Introduction to ASCE-7
5. Understanding the Safety Factor
6. Introduction to Online Roof Calculators

At the conclusion of section two of this course you will have a better understanding of the following:

1. Basic understanding of Factory Mutual and its place in the industry
2. Basic understanding of how FM Standards apply to the building code.
3. Basic understanding of FM Loss Prevention Data Sheets: 1-28, 1-29 & 1-52
4. Update on FM Changes since 2006
5. Practical Application of FM Approvals

At the conclusion of section three of this course you will have a better understanding of the following:

1. Introduction to Alternatives to FM
2. Understanding Insurance Requirements versus Code Requirements
3. Basic understanding of Options for non FM Insured Buildings
4. Important Design Considerations

Course Sponsor	Course #	Course Title
U.S. Ply	IUP07B	Basic Wind Uplift Design, Factory Mutual and Alternative Criteria
Course Description		**P: 866.787.4759**

At the conclusion of this course you will have a better understanding of the following:

1. How wind uplift is determined.
2. Available industry uplift calculators
3. Introduction to Factory Mutual
4. Understanding FM Requirements versus Code Requirements
5. Basic alternatives for non FM Insured buildings

Course Sponsor	Course #	Course Title
Vande Hey Raleigh	IVH07A	Designing with Concrete Roof Tile
Course Description		P: 800.236.8453

After attending this presentation, you should be knowledgeable about:

1. The history, development and current use of concrete tile as a roofing material.
2. The phenomenon of efflorescence and its impact on the performance of concrete tile.
3. The performance benefits of a concrete tile roof.
4. The reasons why concrete roof tile is considered a sustainable, energy efficient, and earth-friendly building product.
5. The basic installation approaches and design considerations when using concrete roof tile.

Course Sponsor	Course #	Course Title
Polyglass USA	PGI07B	Advances in Membrane Roofing (FTF)
Course Description		P: 214.998.4068

Upon completion of this course, you will have a better understanding of:

1. The advantages of self-adhesive membranes with advanced adhesive technology.
2. New products based on advanced adhesive technology.
3. Trends in roofing choices.

Course Sponsor	Course #	Course Title
Polyguard	POL07A	Innovations In Waterproofing Systems (FTF)
Course Description		P: 615.217.6061

After completing this course the participants will have a better understanding of the following:

1. Waterproofing Solutions that Protect the Owner's Investment By
2. Improving Indoor Air Quality
3. Protecting Your Concrete Floors And Walls
4. Preserving Structural Integrity

Doors and Windows (Division Eight)

Course Sponsor	Course #	Course Title
Albany Doors	ALB08A	High Speed Industrial Doors
Course Description		P: 800.252.2691

1. Understand the history of the high performance industrial doors
2. Become aware of the benefits that high performance industrial doors offer (vs. conventional rolling metal doors)
    - Increase workflow
    - Reduce operational costs
    - Reduce energy costs
    - Enhance safety of employees, products, equipment
    - Enhance security
3. Show examples of high performance industrial door applications in various industries
4. Understand the basic features/options that high performance doors offer
5. Glossary to define terms related to high performance industrial doors
6. Illustrate examples of high performance industrial door applications in various industries
7. Explain the basic features/options that High Speed Doors offer
8. Define terms related to high performance industrial doors

Course Sponsor	Course #	Course Title
CABOT	CAB08B	Advanced Fenestration Technology (FTF)
Course Description		P: 617.342.6257

Upon completion of this course one should have the following understandings:

1. How glazing technology has changed, and why it continues to evolve.
2. Be able to identify the value and benefits of daylighting, and the guidelines associated with it.
3. Knowledge of aerogel and its value in building construction.
4. Expanded role that aerogel technology can play in transforming sustainable design and construction.

Course Sponsor	Course #	Course Title
C.H.I. Overhead Doors	CHI08C	The Specification of Rolling Steel Doors
Course Description		P: 608.873.5944

Upon completion of this course, you will have a better understanding of the fundamental aspects of Rolling Steel Fire

1. Doors ranging from code and regulatory bodies to fail-safe fire door definitions and approved installation essentials.
2. We will address NFPA 80 mandates, listing and labeling definitions, approved manufacturing and installation standards, approved fire wall construction details and discussion regarding the specification of fail-safe fire door systems.

Course Sponsor	Course #	Course Title	
Goldray Industries	GIL08B	Decorative Glass As A Solid Surface Building Material	
Course Description		**1 AIA HSW/SD LU**	**P: 800.640.3709**

1. This course will discuss the use of decorative glass as a solid surface building material.
2. During the course of the presentation, it will cover the 6 main reasons for using glass as an alternate to more traditional building materials such as wood, granite, metals and others.
3. The course will also cover some design, budget and construction issues that were solved by innovative ways of using decorative glass. Some of these applications are fairly new to the construction industry and can now be more widely used because of the technological advances in glass decoration.

Course Sponsor	Course #	Course Title	
Muridal Inc.	I08MUA	Quick Installation Hybrid Curtain Wall Systems	
Course Description			**P: 450.582.4242**

Upon completion of this course you will be able to:

1. To better understand the different curtain wall systems presently available
2. To learn what factors to consider when selecting/sizing a curtain wall system
3. To be familiar with the newest technology available for curtain wall system and have an idea of future development
4. To know how to maximize the impact of curtain wall in a LEED application

Course Sponsor	Course #	Course Title	
All Season's Windows	IAS08A	Introduction To Proper Window Selection	
Course Description			**P: 913.469.1005**

Upon completion of this course one should have the following understandings:

1. Determining the right product for your project
    a. Product Performance
        i. Air
        ii. Water
    b. Structural Considerations
    c. Manufacturing /Fabrication Options
    d. Options for Each of the Systems
    e. Installation Considerations
    f. Cost Considerations between products
2. AAMA Certifications

Course Sponsor	Course #	Course Title
Harring Doors	IHD08A	New Stile and Rail Door Technology for Life Safety
Course Description		P: 519.644.2444

Upon completion of this course one should have the following understandings:

1. Describe basic wood stile and rail door construction and terminology
2. Explain how fire core technologies work within wood stile and rail door construction
3. Recognize the benefits of new fire core technologies
4. Identify relevant Fire and Life Safety Codes

Course Sponsor	Course #	Course Title
Hörmann Flexon LLC	IHF08A	High Performance Doors
Course Description		P: 724.385.9137

Upon completion of this course the design professional will be able to:

1. Describe the limitations of sectional and rolling steel doors.
2. Describe the applications of high performance doors.
3. Describe the different types of high speed doors.
4. Describe the types of activations.
5. Explain the features and benefits of high performance doors.
6. List three design considerations required to properly apply a high performance door.

Course Sponsor	Course #	Course Title
Norwood Windows	INW08A	Windows, Doors & the Benefits of Building with Wood
Course Description	**1 AIA HSW/SD LU**	P: 506.532.0908

Upon completion of this course the design professional will be able to:

1. Illustrate different types of windows and doors and their applications
2. Describe the principles of effective window design and installation
3. List and describe 4 primary benefits of windows in structures
4. Describe the principles of carbon capture in wood structures
5. Compare and contrast the environmental benefits of building with wood vs. steel and concrete
6. Identify wood products harvested from sustainably managed forests by differentiating various Green Building Certification systems
7. Identify products which will help structures achieve these ratings – specifically the LEED certification
8. Identify the hallmarks of responsible manufacturing processes
9. List relevant codes and standards applicable to windows and green building practices

Course Sponsor	Course #	Course Title
Rogue Valley Doors	IRV08A	An Introduction to Stile and Rail Wood Doors and MDF
Course Description		P: 800.547.6201

Upon completion of this course the design professional will be able to:

1. Explore the history terminology, designs, and features
2. Observe the process of modern wood door manufacturing
3. Compare the customization options
4. Review MDF router carved doors
5. Review the fire rated doors
6. Describe the specifications, handling, and installation procedures

Course Sponsor	Course #	Course Title
Sherwood Windows	ISW08A	Architectural Aluminum Windows & Curtainwall Design selection for Aesthetics, Performance and Security
Course Description		P: 416.675.5256

At the conclusion of this course the designers should have a general knowledge and understanding of the following:

1. Criteria used in the selection of fenestration products to meet building performance requirements – structural and operational
2. The ability to have aesthetics, performance and security in glazing
3. The importance of flexibility in fenestration design to create the intended vision – Utilizing supplier knowledge and experience
4. The importance of working with Reliable suppliers to get what you want, what you need, when you want it for the right price
5. Impact Resistant Windows – keeping the bad guys and the weather where you want them – either in or out of your building!

Course Sponsor	Course #	Course Title
WINCO	WIN08C	Specifying Windows (FTF)
Course Description		P: 800.525.8089

1. AAMA – Who are they and their role in specifying windows.
2. Architectural window performance and criteria
3. AAMA Gold Label Program
4. Section 08520 – Writing window specifications in accordance to AAMA guidelines.

Course Sponsor	Course #	Course Title
WINCO	WIN08D	Blast Resistant Windows (FTF)
Course Description		P: 800.525.8089

At the conclusion of this course you will have a better understanding of the following:

1. Terms & Definitions
2. Helpful Software
3. Laminates
4. Relevant Documents
5. Test Methods
6. Resources & Contact Information
7. Protection Methods

Finishes (Division Nine)

Course Sponsor	Course #	Course Title
TIGER Drylac©	TIG09B	Powder Coating a Green Alternative for Surface Finishing
Course Description		P: 909.930.9100

Upon completion of this course, you will have a better:

1. Understand the differences between powder coating & liquid coating systems
2. Learn the basics of powder coatings
3. Understand the importance of application (metal pretreatment, curing) for factory applied (powder) coatings as an integral part of the surface quality management process.

Course Sponsor	Course #	Course Title
TREX	TRX09F	Designing With Wood Composite Exterior Decking Material
Course Description		P: 410.732.8624

1. Review evolution of decking materials
2. Understand differences among wood and alternative decking materials
3. Acquire basic knowledge of wood-polymer decking materials

Specialties (Division Ten)

	Course Sponsor	Course #	Course Title
	American Specialties	ASI10A	Accessibility Disconnects in Toilet Room Design - ADA
	Course Description		**P: 914.476.9000**

Upon completion the designer shall have a general understanding of the following:

1. Identify and analyze accessible elements of a multi-user toilet room to determine compliance with applicable accessibility codes, regulations, and guidelines
2. Examine accessible components and review typical design and installation disconnects
3. Briefly review material types appropriate for toilet room use and issues related to usability, abuse, warranty and LEED.

Course Sponsor	Course #	Course Title
Dimplex North America Limited	IDX10A	New Technology To Create A Focal Point For Any Wall
Course Description		**P: 800.668.6663**

This course will help you to:

1. Express consumer expectations for fireplaces.
2. Describe the versatility of electric fireplaces and the potential applications for this product.
3. Identify the characteristics of a high quality electric fireplace.
4. Describe the economic and environmental benefits of electric fireplaces.
5. Explain how electric fireplaces can reduce liability and costs.

	Course Sponsor	Course #	Course Title
	Nordwall Americas	INW10A	S.A.F.E. Solutions for Demountable Modular Wall Systems
	Course Description		**1 AIA HSW/SD LU** **P: 888.779.4335**

At the conclusion of this course the professional will be able to:

1. Describe the differences between two philosophies of construction in the demountable modular walls: progressive VS non-progressive
2. Compare and contrast two different types of non-progressive building approaches: unitized VS component based
3. List the LEED CI advantages that come from using component based systems
4. Recommend or know when to recommend the use of a demountable modular component based wall systems

	Course Sponsor	Course #	Course Title	
	Ruskin	IRU10D	Using Interior and Exterior Sun Shades To Control Sunlight	
	Course Description		**1 AIA HSW/SD LU**	**P: 816.761.7476**
Upon completion of this course you will be able to explain: 1. Sun Shade Definitions and Terminology 2. Sun Shade Materials 3. Sun Shades Types 4. Sun Shades Operation 5. Sun Shade specifications 6. Design Considerations and Sun Shade Selections				

Course Sponsor	Course #	Course Title	
Ruskin	RAS10B	"Weather The Storm" with Wind Driven Rain Louvers	
Course Description			**P: 816.761.7476**
Upon completion the designer shall have a general understanding of the following: 1. Louver definition and terms 2. AMCA International is the leading authority in the United States on louver design and test methods. 3. How louvers are tested and an introduction to the new more stringent test methods. These tests ultimately influence louver design.			

Equipment (Division Eleven)

Course Sponsor	Course #	Course Title	
Getinge	IGT11A	Principles & Design Considerations for Sterile Processes	
Course Description			**P: 800.475.9040**
Upon Completion of this course the participants will be able to: 1. Explain why the Sterile Processing Department (SPD) is such an important department in the facility 2. Understand the basic concepts of decontamination and sterilization 3. Identify the type of equipment found in the SPD 4. Understand the workflow of SPD 5. Factors to consider when designing a SPD			

Course Sponsor	Course #	Course Title
SPALDING	SCG11A	Optimize Your Gymnasium Design
Course Description		P: 515.386.3125

At the conclusion of this course you will have a better understanding of the following:

1. Specifying The Right Equipment For Your Gymnasium
2. Design Considerations
3. Safety Considerations

Furnishings (Division Twelve)

Course Sponsor	Course #	Course Title
Durcon Inc.	DLT12B	Designing with Epoxy Resin Laboratory Work Surfaces
Course Description		P: 512.595.8032

Upon Completion of this course you will have a better understanding of the following:

1. Characteristics of environments where industrial grade work surfaces are typically specified.
2. Recognize the characteristics and attributes of Epoxy Resin and be able to compare and contrast it with other materials such as: Solid Surface, Stainless Steel, Chemically Resistant Composite Resin, Chemically Resistant High Pressure Laminate, and Resin Impregnated Natural Stone.
3. How all the materials compare in performance. Look in depth at: Physical Durability, Chemical Resistance, Heat Resistance, Moisture Resistance, Flammability.
4. Learn and be able to apply specific design criteria and/or standard guidelines for designing with Epoxy Resin such as: material thickness, color, edge finish, backsplash type, sink type and accessories.
5. Gain an understanding of material handling, storage and basic installation requirements for Epoxy Resin.

Course Sponsor	Course #	Course Title
Palmer Hamilton	PAL12B	Cafeteria Solutions – Wall Mounted Table and Bench Systems FTF
Course Description		P: 254.770.3378

Upon completion of this course, you will have a better understanding of wall-mounted tables and bench systems and how to use them effectively. You will gain knowledge and understanding of the following:

1. System Options
2. Space Efficiency
3. Safety & Ergonomics
4. Product Features
5. Operating Cycle and Economic Benefit

Special Construction (Division Thirteen)

Course Sponsor	Course #	Course Title
Bradford Products, LLC	IBP13A	Stainless Steel Pools & Spas for Above Grade or Elevated Installations
Course Description		**P: 910.202.5243**

Upon completion of this course, the design professional will be able to:

1. Define austenite (austenitic), annealed, tensile strength, tensile yield; basic terminology as related to stainless steel composition
2. Define and list 4 properties of stainless steel
3. Describe the differences in construction when utilizing stainless steel vs. concrete for elevated pools
4. Explain the benefits of utilizing stainless steel for elevated pool construction
5. Describe stainless steel fabrication techniques
6. Illustrate a few basic tie-in detail sections for stainless steel pools

Course Sponsor	Course #	Course Title
Oceania Baths, Inc.	IOB13A	Defining Differences: The Modern Spa Bath
Course Description		**P: 877.332.4224**

By the end of this program the designer should be able to assess the differences between air-baths and whirlpools. The designer will also gain knowledge and understanding over the following:

1. Two major Hydro-Massage Therapeutic bath systems
2. The distinctive differences between the systems
3. Pro's and Con's of each type of system
4. What to look for and expect in working with consumers regarding their needs when specifying baths
5. Types and materials for the various baths available in the market

Conveying Systems (Division Fourteen)

 Course Sponsor	Course #	Course Title
Garaventa	GAR14C	Wheelchair Platform Lifts, The ADA and Accessibility
Course Description		**P: 800.663.6556 ext 212**

Upon Completion of this course you will have a better understanding of the following:

1. Learn ADA's requirements for platform lifts
2. Learn the different types of platform lifts
3. Learn about basic product design
4. Learn about code compliance issues
5. Learn about the application of platform lifts to solve accessibility problems
6. Learn about the challenges and solutions for evacuation of persons with disabilities

Course Sponsor	Course #	Course Title
Garaventa	IGR14A	Inclined and Vertical Wheelchair Lifts and ADA (Video)
Course Description		**P: 800.663.6556 ext 212**

Upon completion of this course, you will be able to:

1. Describe the different types of platform lifts
2. Explain product design and its effect on the disabled user
3. List code compliance issues
4. Explain the application of platform lifts to solve accessibility problems
5. Describe solutions for evacuation of persons with disabilities

Course Sponsor	Course #	Course Title
Klaus Multiparking, Inc	IKP14A	Mechanical Parking Solutions for Modern Urban Density
Course Description		**P: 925.284.2092**

Upon completion of this course, the designer will be able to:

1. Define mechanical parking
2. Describe dependent access parking stackers' uses and limitations
3. List the different types of independent access parking stackers
4. Explain puzzle lifts, how they work and what their advantages are
5. Describe fully automatic machines and why they might be used
6. Compare and contrast the different stackers and lifts and describe when each would be appropriate for use
7. Describe what type of cars are suitable for each lift
8. Describe the design requirements for each parking type

Course Sponsor	Course #	Course Title
ThyssenKrupp Access	I14TKD	ADA Design Standards for Wheelchair Lifts and Limited Use Elevators
Course Description		**P: 800.925.3100 ext 5492**

The participant will gain general knowledge over the following:

1. Review the standards used in the design, manufacturing and installation of wheelchair lifts and limited use elevators
2. Discuss the accessibility requirements outlined in:
3. American Disability Act Accessibility Guidelines (ADAAG)
4. American Society of Mechanical Engineers (ASME)
    a. Section 1: Compliance with Codes & Standards
    b. Section 2: ADA Accessibility Guidelines
    c. Section 3: Wheelchair Lifts
    d. Section 4: LU/LA Elevators

Course Sponsor	Course #	Course Title
ThyssenKrupp Access	TKA14B	Retro Fit and New Construction Applications of Residential Elevators
Course Description		**P: 800.925.3100 ext 5492**

The participant will gain general knowledge on residential Elevators and will also learn about the following:

1. The History Of The Elevator
2. Why Use Residential Elevators?
3. Residence Size
4. Installation
5. What Are The Different Residential Elevator Drive Systems
6. Winding Drum
7. Roped Hydraulic counter weighted chain drive (Counter Weight)

Electrical (Division Sixteen)

Course Sponsor	Course #	Course Title
Berchtold Corporation	IBR16A	Critical Factors in OR Design
Course Description		**P: 843.569.6100**

Upon completion of this course one should have the following understandings:

1. Describe the key physical factors of the OR and equipment that should be taken into consideration when designing a new operating room.
2. Explain how new surgical techniques create a need to reassess the conventional design of operating rooms.
3. Explain why the ceiling in the operating room is very valuable real estate and how clinical needs must be incorporated into the design as it relates to equipment being “fixed” to the ceiling.
4. List the super-structures that support the equipment, as this is critical to the overall success of the room design.

Plumbing (Division Twenty-Two)

	Course Sponsor	Course #	Course Title
	Jay R. Smith Mfg.	IJR22A	Rainwater Harvesting Using Siphonic Roof Drainage Systems
Course Description		**1 AIA HSW/SD LU 1 ASPE CE Unit**	**P: 334.277.8520**

Upon completion of this course, the designer will be able to:

1. Describe the basic ideas of rainwater harvesting
2. Describe the basic principles of siphonic roof drainage systems
3. List the benefits of rainwater harvesting with siphonic roof drainage
4. Compare and contrast the differences between traditional drainage and engineered siphonic roof drainage
5. Reference the codes and standards relating to siphonic systems
6. Name and understand the components of a rainwater harvesting system using siphonic roof drainage
7. Illustrate how a rainwater harvesting siphonic drainage system works with different roof designs and as a controlled flow system
8. Site case studies and installation examples where a rainwater harvesting system using siphonic roof drainage benefited the owner
9. Describe how a rainwater harvesting system using siphonic roof drainage can help reduce project costs
10. Incorporate a rainwater harvesting system using siphonic roof drainage into a building design to help acquire LEED points

	Course Sponsor	Course #	Course Title
	TOTO	ITO22A	Universal Bath Design (ADA)
Course Description			**P: 800.726.0882**

Upon completion of this course the designer will be able to:

1. Distinguish between accessible design focused on the wheelchair bound or the physically handicapped and design for the UNIVERSE of all human forms.
2. Knowledgably integrate comprehensive planning at the time a home is designed, translating into extended usefulness of the home and happier healthier lives for it's owners.
3. Describe how independence is frequently lost because of difficulties using non universally designed bathrooms
4. List current standards in practice for a universally designed bathroom.

	Course Sponsor	Course #	Course Title	
	TOTO	ITO22B	Water Efficient Plumbing	
Course Description			**1 AIA HSW/SD LU**	**P: 800.726.0882**

Upon completion of this course the designer will be able to:

1. List reasons for water efficiency requirements and incentives
2. Describe "Voluntary" Toilet Performance Standards in North America
3. Explain:
    a. The need for realistic media tests
    b. The emerging consumer based standard: UNAR
    c. The EPA's WaterSense program
4. Compare Modern Toilet Technology to traditional plumbing
    a. How other EPACT fixtures and fittings work in this regard
5. Apply knowledgably the Indoor Water Efficiency Credits for LEED
6. Explain what "sustainable" plumbing means in the future

HVAC (Division Twenty-Three)

	Course Sponsor	Course #	Course Title	
ClimateMaster		CLM23A	Smart Solutions for Energy Efficiency	
Course Description			**1 AIA HSW/SD LU**	**P: 405.745.6000 ext 319**

Upon completion of this course you will have a better understanding of the following:

1. How a water-source heat pump (WSHP) works
2. The various heat source / heat sink options for WSHP applications (water-loop and geothermal applications)
3. The various WSHP unit configurations
4. The basic design requirements for WSHP systems (water-loop and geothermal applications)

	Course Sponsor	Course #	Course Title	
	Therma.Ray	ITR23A	Electric Radiant Heat	
Course Description			**1 AIA HSW/SD LU**	**P: 506.457.4600**

Upon completion of this course the designer will be able to:

1. Explain the difference between convection and radiant heating systems
2. Describe how heat loss affects human comfort and dispel the myth that heating with electricity is expensive
3. Recognize how radiant heating technology applies to daily functions
4. Incorporate electrical radiant heating technology into your design
5. List several successful case studies of incorporating electrical radiant heating technology into projects
6. Acquire LEED points for Existing Buildings and New Construction

Electrical (Division Twenty-Six)

	Course Sponsor	Course #	Course Title	
Beta LED		IBL26A	LED Lighting for General Illumination	
Course Description			**1 AIA HSW/SD LU**	**P: 262.884.3334**

At the conclusion of the course you will have a Better understanding of the following:

1. LED Background & Technology
2. What to look for in LED fixtures
3. LEDs
4. Drivers
5. Thermal Management and Life
6. Optical Design
7. Housing
8. Delivered Lumens
9. Environmental
10. Cost
11. Performance & Examples

Exterior Improvements (Division Thirty-Two)

	Course Sponsor	Course #	Course Title	
	Integrated Paving Concepts	IIP32B	Technologies for Sustainable Streets	
Course Description			**1 AIA HSW/SD LU**	**P: 604.574.7510**

At the conclusion of this course you will have a better understanding of the following:

1. Describe the 3 considerations for choosing pavements: Recyclability, Carbon Footprint, Heat Island Effect.
2. Explain strategies for mitigating heat island effect.
3. Express how pavement fits into different green building rating systems and environmental concerns including VOCs, Energy, LEED, and Greenroads.
4. Describe different traffic calming methodologies and explain the final solution to meeting these goals.
5. Give examples on how walking path and pavement design can bring communities together to create a move livable environment and a better quality neighborhood.
6. Illustrate NYC's Sustainable Streets Plan and describe how this is helping to create a better pedestrian and cyclist environment in an urban setting.

Other Courses Available

Course Sponsor	Course #	Course Title	P: 724.459.1429
Dietrich Metals	DMF002	Construction Joints Head of Wall Deflection	
Dietrich Metals	DMF003	Why Build With Steel Utilizing Light-Gauge Steel Framing Systems	
Dietrich Metals	DMF005	Specifying Tested Connection Products That Limit Liability	
Dietrich Metals	DMF008	Specifying and Installing Nonstructural Steel Framing Members per ASTM C645 and C754	
Dietrich Metals	DMF009	Specify & Install Structural Steel Studs per ASTM C955 & C1007	
Dietrich Metals	DMF010	Sustainable Advantages of Cold-Formed Metal Framing **(AIA SD)**	

Course Sponsor	Course #	Course Title	P: 562.926.5520
Samsung	SS1	Solid Surface Solutions in Commercial Settings	