

## AIA Course Offerings

VENDOR	COURSE TITLE	DESCRIPTION	LEARNING OBJECTIVES	AIA CREDIT
<b>HB&amp;G</b>	Timeless Columns in Contemporary Design	In this one-hour course, we will review the history of columns to see how they have evolved from a means of solely providing physical support for buildings to adding light to a room or providing a timeless, contemporary piece of architecture with varied purposes. After investigating the different materials that columns are made of, we will discuss the advantages and disadvantages of each material type. We will also explore the manufacturing and installation process of each material as well as discuss problems associated with sub-standard manufacturing or improper installation. Next, we will examine today's market trends to see its effect on the column business. We will end the course by looking at several applications to see how column's can offer an enduring, beautiful product that is safe for the environment and its occupants.	By completing this course, the design professional will be able to: 1. Identify the different types of materials used in columns and determine which environment each one is best suited for. 2. Compare and contrast the advantages and disadvantages of each material to discover the health and safety aspects of the product. 3. Explain the installation process for each type of column to ensure proper procedures are being followed to better protect people and their environment. 4. Analyze case studies to see how columns have been used in an array of projects in an aesthetically pleasing yet functional manner that contributes to the overall welfare of others.	1 HSW CE
<b>MARVIN</b>  Trends in Windows & Doors	Fenestration's Role in Modern Architecture and Design (ModernFen22)	From the beginning, windows and doors have played a critical role in Modern architecture and design. This presentation will provide a detailed analysis of existing fenestration systems and emerging trends used in modern design. Participants will walk away with a stronger understanding of architects at the of Modern design and of fenestration options, technology and performance needed to bring this aesthetic to life.		1 LU
	Biophilic Design with Windows and Doors (BioDesignR2020)	Windows and doors are the gateways to bring nature into the home with light, views, ventilation, access to nature and more. This session will demonstrate how applying the goals of biophilic design to windows and doors will help you cultivate wellbeing within the build environment for your residential clients and their families.		1 LU / HSW
	Exterior Glass Doors: Improve Function, Performance and Well-Being in Residential Design (ExtGDoorsRes22)	The use of exterior glass doors change the experience of the homeowner by contributing to healthier, more appealing spaces and strengthening the connection between indoors and out. This course looks at the variety of exterior glass doors available, their design characteristics, performance considerations, and how they can impact well-being for residential customers.		1 LU / HSW
<b>MARVIN</b>  Historic Rehabilitation	Windows with a View into the Historic Rehabilitation of the Cincinnati Music Hall (MusicHallRehab)	This course aims to demonstrate the initial planning, research, design, and execution that goes into a large window rehabilitation project through the lens of a key National Historic Landmark, the Cincinnati Music Hall, built in 1878.		1 LU / HSW
	Windows and Historic Homes: Repair, Replace and New Additions (HistoricRes20)	This course will explore residential window options for properties in and outside historic districts. The standards and guidelines from the Secretary of Interior will be introduced and reviewed for their influence on residential projects. A list of the various aspects of window replacement homeowners and architects need to balance will be considered and reviewed. Case studies will be shared to demonstrate how factors of rehabilitation and window replacement apply to residential historic projects		1 LU / HSW
	Window Solutions for Historic Rehabilitation Projects (HistoricWRehab)	Complexities surround the rehabilitation of an historic building: tax credits, standards and guidelines, performance requirements, and the range of product solutions available based on the building's condition and intended use. This course is designed to educate participants on the importance of fenestration in relation to the building's exterior, provide best practices to be employed throughout the project and examine how Standards and Guidelines from the US Department of Interior are applied to window repair or window replacement.		1 LU / HSW
<b>MARVIN</b>  Fenestration Materials & Testing	Performance, Resiliency, and Sustainability: Pultruded Fiberglass Windows and Doors (Pulfiber19)	Learn about pultruded fiberglass, a modern composite known for its resiliency and durability. This course will familiarize you with the basic aspects of fiberglass composites and how they impact the building design and energy efficiency.		1 LU / HSW
	Understanding Key Performance Factors for Window and Door Exterior Finishes (WDExtFinishes)	The exterior finish you select for the windows and doors play a key role in the durability, long-term maintenance, and lasting beauty of any residential or commercial building. In this course, you will learn about industry standards and factors you need to weigh in specifying the finish based on the project requirements.		1 LU
<b>MARVIN</b>  Fenestration Materials & Testing	Meeting Design and Performance Requirements with Pultruded fiberglass Windows and Doors (Pulfiber23)	This course will familiarize you with the basic aspects of fiberglass composites, with a specific emphasis on pultruded fiberglass. By examining the performance characteristics, durability in numerous environmental advantages of pultruded fiberglass, this course will outline the advantages of windows and doors made from pultruded fiberglass, and use case studies to demonstrate applications across a wide variety of multi-family and commercial build environments.		1 LU / HSW

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<b>LACANTINA</b>	Creating Integrated Spaces for Wellbeing Using Folding, Multi Slide, and Swing Door Wall Systems	Integrating interior and exterior spaces has been shown to provide occupants with myriad benefits in a variety of settings. Establishing a connection with the outdoors can improve health and wellbeing for occupants at home or in the office, as well as encouraging healing and reducing stress. In retail settings, connections with nature have been shown to increase consumer spending, and in any environment, views and sounds of nature have proven to reduce stress and enhance concentration. Folding, multi slide, and swing door systems lend themselves to occupant wellbeing by integrating interior and exterior spaces and seamlessly providing controllable access to nature.		1 LU / HSW
	THE FUTURE OF FOLDING DOORS: NEW INNOVATIONS DRIVEN BY DESIGN	Evolving design trends have driven the emergence of a new range of folding door products that complement modern architecture and improve user experience through performance and ease of operation. This course will review key attributes of these next-generation folding doors, including product styling and sightlines, size capabilities, hardware design and placement, and performance criteria. You will learn how these design improvements open up sightlines, ease operation, and boost the performance of folding doors.	<ul style="list-style-type: none"> <li>· Examine how the lines between residential and commercial design are blurring, and how architects can use folding door systems in each market to enhance their designs.</li> <li>· Explore how narrower stiles and larger panel sizes work together to improve sightlines and views to the exterior by minimizing obstructions and maximizing glazing.</li> <li>· Discover how innovative hardware solutions improve aesthetics and make folding doors easier to operate.</li> <li>· Review performance measures for folding doors, including water penetration, structural strength, and air infiltration, and understand how next-generation folding doors improve on each of these metrics.</li> </ul>	1 LU / HSW
<b>TRUSTILE</b>	Transforming Residential Design Through Unique Applications of Interior Doors	This is a course which demonstrates the history, trends, steps designers can take to design doors into projects and the overall effect that designing with interior doors can have in a custom project.		1 LU / HSW
	Designing Wood Entry Doors For Today's Custom Homes - Form, Function, Well-Being	In this course you will learn how to specify and design a wood entry system that enhances the design, improves the overall well-being and provides long lasting performance and security.		1 LU / HSW
<b>REEB</b>	Emerging Home and Door Design Trends: Heightened Functionality Meets Customization	<p>Given the events of the last several years, people have become increasingly mindful of how spaces look, feel and function. With emphasis on creating rooms that are as functional as they are beautiful, many architects and designers are recognizing the critical role doors play in elevating the human experience. The following is an overview of the in-house presentation on emerging home and door design trends, which will examine how wood doors can enhance occupant health and wellbeing at home by paying tribute to key elements of biophilic design.</p> <p>Topics will include:                      How wood doors pay tribute to key principles of biophilic design and, in turn, enhance occupant wellbeing at home. The differences between wood doors and doors made from other materials, identifying wood door's enhanced customization capabilities which make it possible to bring form and function to any application.                      How barn doors and oversized "Monster Doors" mounted on barn track require a fraction of the operational footprint of swing doors and enable homeowners to create flexible, accessible, easily operable and transitional living spaces.                      Design-forward door and hardware styles that support natural ventilation, daylight transfer and visual connectivity to the outdoors to promote health at home.</p>	<p>After completing this course, participants will be able to:                      Discuss how wood doors exhibit principles of biophilic design. Name key differences between wood doors and doors made from other materials.                      Recognize how new applications of wood doors can meet the needs of the modern home.                      Explain how door and hardware styles can support natural ventilation, daylight transfer, and visual connectivity to the outdoors.</p>	1 LU / HSW
	The Battle Against Moisture	<p>This course consists of a presentation in a PDF format followed by a brief test and offers an in-depth look at exterior wood doors and the battle against moisture. The course qualifies for 1 HSW (health, safety, welfare) learning unit hour from the American Institute of Architects.</p> <p>Topics will include:                      Use of wood doors in architectural designs                      Key components of stile and rail wood doors                      Moisture protection</p>	<p>After completing this course, participants will be able to:                      Specify how wood doors can be incorporated into a range of architectural styles for homes and light construction                      List the key components of stile and rail wood doors                      Describe common points of moisture vulnerability in exterior wood doors                      Explain manufacturing materials and techniques that can protect wood doors against water infiltration                      Discuss methods for designing building overhangs, and selection of wood finished, that further enhance wood door weatherability</p>	1 LU / HSW
	Achieve Your Design Vision	<p>This course consists of a presentation in a PDF format followed by a brief test and offers an in-depth look at ways to design a door that reflects creativity and personality to fit any architectural style. The course qualifies for 1 learning unit hour from the American Institute of Architects.</p> <p>Topics will include:                      Personalization trends in building products                      Design Flexibility – wood, glass, size options                      Creating welcoming entryways with wood doors                      Crafting visually engaging interiors with wood doors</p>	<p>After completing this course, participants will be able to:                      Describe how wood doors can be incorporated into a range of architectural styles for homes                      List 3 or more ways wood entry doors can be personalized to achieve a design vision                      Articulate how wood doors are manufactured compared to molded materials such as steel and fiberglass doors                      List 3 door mounting alternatives to traditional swing hinges                      Discuss 3 or more ways wood doors can be used to enhance interior design</p>	1 LU

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<b>ORIGIN</b>	Structural, Thermal and Environmental Material Performance for Today's Doors and Windows	The CES facilitator will utilize a PowerPoint presentation to provide an overview of the current issues related to 'Structural, Thermal and Environmental Material Performance for Today's Doors and Windows'. It will be an interactive session that encourages feedback and questions.	<p>Qualify materials that offer a variety of thermal performance features</p> <p>Understand the changing landscape of structural code requirements for wind loads on doors and windows, as the geographic wind load maps change</p> <p>Recommend the right substrate material for doors and windows that meet both thermal and structural code requirements as well as the environmental pros and cons of various material options</p> <p>Identify aesthetic trends and expectations from clients who expect high performance doors and windows that offer beauty and functionality</p>	1 LU / HSW
	Improving the Living Experience by Bringing Light Into the Home, Workplace and Community with Doors and Windows	The CES facilitator will utilize a PowerPoint presentation to provide an overview of the current issues related to 'Structural, Thermal and Environmental Material Performance for Today's Doors and Windows'. It will be an interactive session that encourages feedback and questions.	<p>Identify top trends with Doors and Windows and how they pertain to glass and natural light</p> <p>Identify common materials that Doors and Windows are made of and the benefits of each with regards to strength and glass to frame ratios</p> <p>Understand the health benefits of natural light</p> <p>Learn ways to increase the amounts of natural light in the home or workplace</p>	1 LU / HSW
<b>HF</b>	Installation and Flashing of Fenestration Products	This course will present the importance of quality products, flashing, and installation in the contemporary building industry.	<p>Discover the impacts of flashing and the consequences of low-quality installation and flashing.</p> <p>Learn about the effects flashing has on performance.</p> <p>Learn about the different window options and applications.</p> <p>Explore methods of weatherproofing and flashing.</p>	1 LU / HSW
<b>OSI</b>	OSI Certified Installer Program	The OSI Certified Installer Program delivers over 90-minutes of tutorials which include industry best-practices, jobsite tips and technical product information. It can help any professional better understand the window and door flashing installation process. And in addition to improving performance, reducing callbacks and increasing jobsite efficiency, OSI Certified Installers are backed by our 15-Year Limited Warranty. Protect your install and your reputation with knowledge and training from OSI.		
<b>FYPON</b>	Polyurethane Millwork Molding and Trim Solutions	This course will review the history of polyurethane products, discuss performance properties, examine product types, and explore project solutions and examine its use within the building construction industry.	<ol style="list-style-type: none"> <li>1. Review the history of Polyurethane as a building material</li> <li>2. Discuss manufacturing processes and performance characteristics</li> <li>3. Define product categories and review typical examples</li> <li>4. Explore custom molding and trim possibilities</li> <li>5. Validate installation protocols</li> </ol>	1 LU
<b>THERMATRU</b>	Composite Solutions for Side Hinged Entry Systems	This course will review composite component products in entry door systems to achieve enhanced system performance, in structural, livability, and safety elements in the built environment.	<p>Identify common types of composites typically used in the built environment.</p> <p>Identify common types of composites typically used in the built environment.</p> <p>Evaluate and select composite materials to improve durability, and structural integrity</p> <p>Demonstrate how components, systems, and their values can achieve superior energy savings and enhance livability</p> <p>Identify product components and systems that provide long term environmental benefit</p>	1 LU / HSW
<b>YAWAL</b>	Sustainability, Wellbeing and Maximum Energy Performance in Fenestration Systems	<p>Windows and doors determine the occupant's levels of comfort, wellbeing and can help to save energy and money. High performance windows and doors require high performance solutions that maximize energy savings and enhance comfort through a range of benefits such as acoustics, oversize options and safety. This course will explore the design, materials, and technological approaches to the fenestration solutions for residential homes and multifamily projects, with a close application to net zero/passive homes. Look at a case study to design buildings for clients that are high-performance and target net-zero energy.</p> <p>Review of materials: aluminum and glass.</p> <p>Examine trends and technology that enable contemporary design while preserving energy and maximizing comforts</p> <p>A step by step showcase on a case study that leverages these trends and technologies to create a powerful aesthetics and resilient design idea to clients (and peers). There are two cases, one for residential and one commercial focus discussions.</p>	<p>This course will contribute to your practical understanding and application of a range of technologies and analysis techniques for designing comfortable, resource-efficient and contemporary residential and light commercial buildings.</p> <p>Specifically:</p> <p>LO1: Identify and evaluate high performance windows and doors solutions that optimize energy performance and occupant comfort.</p> <p>LO2: Understand how to apply these technologies to projects with a broad range of clients needs, ranging from energy savings, to special color and shapes requests.</p> <p>LO3: Evaluating strategies which are cost effective for high performance windows and doors</p> <p>LO4: Reference real world examples that demonstrate application of high-performance windows and doors and their effect on the occupants health and welfare.</p>	1 LU / HSW
<b>HENKEL</b>	Understanding Today's Sealants	This course will consider today's sealants and how they play a part in the building assembly. Explain the difference between features and benefits as well as their specific contribution to the buildings strength, energy savings and protection	<p>Part I Explore the technological advancement of the building envelope and how sealants play a part in the today's wall assembly</p> <p>Part II Understanding the Difference –Sealant technology</p> <p>Part III Understand the difference - Sealant types</p> <p>Part IV Describe specific sealant applications</p>	1LU