HB WORKPLACES

MillerKnoll

# CEU Course Offering

**Alexander Girard: Celebrating Life Through Design**
*AIA Program Number: ALEXGIRARD2022*
*Credits: 1 LU*
*IDCEC Course Number: CEU-122172*
*Credits: 0.1*

In this course, participants will learn about the life, achievements, philosophy, and impact of Alexander Girard. With an emphasis on his wide-ranging body of work, especially textiles but including products, graphics, furniture, and interiors, the course presents Girard as a consummate multitalented designer who brought richness and humanity to modernism.

**Florence Knoll: Defining Modern**
*AIA Program Number: FKDM2023*
*Credits: 1 LU*
*IDCEC Course Number: CEU-117150-R1*
*Credits: 0.1*

As an architect, interior space planner and furniture designer, the commitment Florence Knoll made to design excellence, in everything, resonates clearly. This program is an illutrative discussion of Florence Knoll's contribution to interior design in the context of her landmark 2005 exhibition for the Philadelphia Museum of Art. This exhibition has been travelling to college art galleries throughout 2007, 2008 and 2009.

**George Nelson: Architect of American Design**
*AIA Program Number: NELSON2022*
*Credits: 1 LU*
*IDCEC Course Number: CEU-118287*
*Credits: 0.1*

This course explores George Nelson's leadership and vast contribution to midcentury modern design and shares the breadth of his talents across teaching, writing, architecture, and a myriad of disciplines. It features prerecorded conversations with Nelson and celebrates his legacy of modern, humane design.

**Leading Modernism: The Designers who Forwarded the Movement**
*AIA Program Number: LeadModern*
*Credits: 1 LU*
*IDCEC Course Number: CEU-118007-R1*
*Credits: 0.1*

In this course, participants will learn about modernism's roots in the Bauhaus; the relationships of major midcentury designers, including Marcel Breuer, Harry Bertoia, Mies van der Rohe, Gilbert Rohde, Eliel and Eero Saarinen, Florence Knoll, Ray and Charles Eames, George Nelson, Alexander Girard; the influence these designers had on two companies at the center of modernism; and the role the companies and designers played in shaping America's tastes in design.

**Modernism for Everyday Living**
*AIA Program Number: MEL2022*
*Credits: 1 LU*
*IDCEC Course Number: CEU-108641-R2*
*Credits: 0.1*

The 1939 World's Fair in New York City introduced many new products and ideas about the future of the American home,promoting industrial design and new materials. But where could the average consumer touch, feel and buy modern design? And how could they learn how to choose, and use, the revolutionary new shapes, products and appliances? By the end of today's program, you will understand how modern design was popularized for the American consumer, and learn about the diverse career of a pioneering designer and proponent, Russel Wright.

**Modernism's Master Salesman: How Gilbert Rohde Sold Modernism to America**
*AIA Program Number: ROHDE22*
*Credits: 1 LU*
*IDCEC Course Number: CEU-107477-R2*
*Credits: 0.1*

This course introduces participants to Gilbert Rohde and the critical role he played in introducing Americans to modernism. It covers his contributions to product and exhibition design, marketing, and education—all of which he used to try to persuade Americans to make modern design the national style.

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**Ward Bennett: Giant of Minimalism**
*AIA Program Number: WARDBEN2022*
*Credits: 1 LU*
*IDCEC Course Number: CEU-104824-R2*
*Credits: 0.1*

In this course, participants will learn about the life, achievements, philosophy, and impact of Ward Bennett. With an emphasis on his wide-ranging body of work and his minimalist approach, the course presents Bennett as a largely self-taught designer whose impact helped change the face of design in America and elsewhere.

**Work as Play: How Charles and Ray Eames Built a Legacy by Amusing Themselves**
*AIA Program Number: Eames2024*
*Credits: 1 LU*
*IDCEC Course Number: CEU-120901*
*Credits: 0.1*

This presentation explores how Charles and Ray Eames sense of play shaped their work across disciplines, from furniture design and architecture to exhibitions and film, as well as how that work shaped American Modernism. Learn about Charles and Ray Eames as individuals and collaborators, focusing on their belief that play is an intrinsic part of meaningful work.

**Connected Campus**
*AIA Program Number: CAMPUS2023*
*Credits: 1 LU*
*IDCEC Course Number: CEU-113173-R2*
*Credits: 0.1*

The historic separations that defined higher education are now changing due to shifts in demographics, technology, and economics. This brief explores the trend of higher education transitioning from separate to connected entities. It shows how by better connecting what they offer, how they are organized, and how they operate, colleges and universities can build value and agility, as well as better support all constituents on campus. It shows how organizations can apply lessons from the connected campus to creating a workplace where new graduates will thrive.

**Cognitive Ergonomics in Workplace Design**
*AIA Program Number: CogErgo2022*
*Credits: 1 LU*
*IDCEC Course Number: CEU-106981-R2*
*Credits: 0.1*

This CEU provides a more thorough understanding of cognitive ergonomics. Cognition is the way we acquire knowledge and understanding through thought, experience, and our senses. A workplace that takes cognition into consideration in its design, including things like cognitive processing and information overload, helps us feel better. And when we feel better, we work better. By introducing participants to cognitive ergonomics and its implications for office design, this CEU will help them design workplaces that are healthier for everyone.

**Human Factors in Workplace Design: Designing Spaces That Are More Naturally Human**
*AIA Program Number: HUMANFACTORS24*
*Credits: 1 LU*
*IDCEC Course Number: CEU-117326-R1*
*Credits: 0.1*

When we feel better, we work better. That's one of many reasons it's critical to consider human factors in workplace design. By providing an overview of physical, social, and cognitive ergonomics, this CEU will help participants design workplaces that are healthier for workers.

**Physical Ergonomics in Workplace Design**
*AIA Program Number: PhysErgo22*
*Credits: 1 LU*
*IDCEC Course Number: CEU-104298-R2*
*Credits: 0.1*

This CEU will explain how the human body fits into the system that is the office. We'll explore how and why the body experiences pain at work and give tips for designing furnishings, surroundings, and tools to fit the person.

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**Social Ergonomics in Workplace Design**
*AIA Program Number: SocialErgo2022*
*Credits: 1 LU*
*IDCEC Course Number: CEU-119307*
*Credits: 0.1*

This CEU provides a more thorough understanding of social ergonomics. A workplace that helps us initiate and regulate social interaction, and that takes into consideration factors like personal space, physical and psychological proximity, and territoriality helps us feel better. And when we feel better, we work better. By introducing participants to social ergonomics and its implications for office design, this CEU will help them design workplaces that are healthier for everyone.

**The Tech-Healthy Workplace**
*AIA Program Number: TechHealth22*
*Credits: 1 LU*
*IDCEC Course Number: CEU-109631-R1*
*Credits: 0.1*

This course provides an overview of how organizations can improve fit between employee and technology and make employees feel better and stay healthier and more productive at work. By providing various ergonomic tools that support people as they use technology, by understanding some of the physical, social, and cognitive issues related to the use of these tools, and by designing based on the needs of people and their work activities early in the design process, organizations can improve employee health, engagement, and productivity.

**Care Everywhere: Exploring the shift in virtual care**
*AIA Program Number: CareEverywh25*
*Credits: 1 LU*
*IDCEC Course Number: CEU-115417-R1*
*Credits: 0.1*

In this course, you will learn about the growing importance and acceptance of telemedicine. You'll hear the reasons why it is becoming a viable alternative in serving a wide range of patient needs. And, you will see the affect technology is having on telemedicine and the ways that space design strategies can advance its practice while keeping the people involved central to the experience.

**Condition Critical**
*AIA Program Number: CondCrit2022*
*Credits: 1 LU*
*IDCEC Course Number: CEU-117114-R1*
*Credits: 0.1*

Clinicians are under pressure to provide exemplary care, yet ever-changing industry demands are contributing to the lowest level of engagement among their peers. You'll hear the reasons why workplace design is an important factor in improving both the clinician's and patient's experience. You will also learn how workplace design can have a significant impact on clinician behaviors, attitudes, well-being, and ultimately organizational health. Finally, you will explore the implications of design for clinician resiliency, respite, and restoration.

**Designing Spaces for High Performing Care Teams**
*AIA Program Number: CareTeams2022*
*Credits: 1 LU*
*IDCEC Course Number: CEU-116524-R1*
*Credits: 0.1*

When it comes to patient safety, fluid communication among members of care teams is vital. The built environment should be designed to enhance communication, and the knowledge sharing and informal learning that happens along with it.
The following design principles can help us remove communication roadblocks that lead to errors and adverse outcomes for patients: including a variety of settings, increasing conversational transparency, facilitating chance encounters, planning human-scaled work areas, and creating neutral zones. These design considerations, alone or in combination, can improvement teamwork and patient welfare.

**Intersection of Hospitality and Healthcare**
*AIA Program Number: IHIH2023*
*Credits: 1 LU*
*IDCEC Course Number: CEU-119993*
*Credits: 0.1*

In this course, you will learn about the origins of hospitality, the guest-host relationship, and considerations for supporting hospitality in healthcare environments.
Healthcare organizations challenged by staff shortages and burnout, as well as attracting and retaining patients, are turning to hospitality concepts as a way to elevate the human experience and in turn remain competitive. By understanding the origins of hospitality, we see that it is a deeply embedded human activity. It is who we are as human beings and when done right, it provides for fundamental human needs such as psychological and physical security, belonging, and wellbeing. With a focus on guest-host relationships, designing for hospitality in healthcare environments can enable protection to lower stress and anxiety, intellectual welcome to be inclusive of all, and table fellowship to encourage sharing and trust.

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### Planning for Clinical Practice

*AIA Program Number: PlanClinical24*
*Credits: 1 LU*
*IDCEC Course Number: CEU-122370*
*Credits: 0.1*

When it comes to patient safety, fluid communication among members of care teams is vital. The built environment should be designed to enhance communication, and the knowledge sharing and informal learning that happens along with it.
The following design principles can help us remove communication roadblocks that lead to errors and adverse outcomes for patients: including a variety of settings, increasing conversational transparency, facilitating chance encounters, planning human-scaled work areas, and creating neutral zones. These design considerations, alone or in combination, can improvement teamwork and patient welfare.

### Comfort, Context, and the Impact of Materials

*AIA Program Number: Comfort23*
*Credits: 1 LU*
*IDCEC Course Number: CEU-119746*
*Credits: 0.1*

This course explores the role of colors, materials, and finishes (CMF) in providing such cues. CMF is one of many levers that can be used to meet fundamental human needs, make a space's use intuitive, and create comfort at work, which correlates with important business drivers, including productivity.

### Embracing Gen Z

*AIA Program Number: GenZ25*
*Credits: 1 LU*
*IDCEC Course Number: CEU-113496-R1*
*Credits: 0.1*

Often referred to as digital natives, Generation Z has never known life without cell phones or the internet. Currently comprising about 20% of the population in the U.S. and Canada, this cohort will soon surpass Millennials as the largest generation globally. However, the newest entrants to the workforce are not simply "young Millennials." Born between 1995 and 2010, they represent the dawn of a new generation with a unique perspective and passion for making a lasting difference. This brief explores the characteristics and behaviors that define and differentiate this generation, and how that affects their point of view as they prepare to enter the workforce. It seeks to inform and educate those who design and plan workplaces to help them create environments and a corresponding culture that supports and engages these young people. Using a mix of databased trends, personal narrative and first-person video, this interactive session shares research on how these young people work, learn and socialize in campus and work environments.

### New Metrics of Place

*AIA Program Number: NewMetrics22*
*Credits: 1 LU*
*IDCEC Course Number: CEU-107500-R12*
*Credits: 1.0*

Traditional workplaces don't support the way people actually do work today. To find out what kind of workplace designs do, Herman Miller is studying progressive work environments around the world. This CEU summarizes the findings of that research so far, including six emerging patters of use and associated metrics that organizations can draw on to create, measure, and manage high-performing work environments that empower people to do their best work.

### Redefining the Workplace: Settings for Relationship-Based Work

*AIA Program Number: RedefineWork24*
*Credits: 1 LU*
*IDCEC Course Number: CEU-120924*
*Credits: 1.0*

Recent shifts have organizations thinking about work and workplace in new ways. You'll learn how taking a more relationship-based approach to workplace planning—as opposed to an activity-based approach—considers who needs to be supported and the nature of their interactions. And you'll explore space typologies, or settings, that can help organizations support wellbeing, facilitate connection, and navigate change for individuals, groups, and the broader community.

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### Sensory Design at Work

*AIA Program Number: SensoryDes2022*
*Credits: 1 LU*
*IDCEC Course Number: CEU-113809-R2*
*Credits: 0.1*

Supporting teams remains a critical strategy for organizations looking to improve performance and attract talent. Designing optimal environments for group work requires understanding the unique needs of different types of teams. Specific team types can be supported with appropriate combinations of sensory design elements to help sustain energy levels that align with the tasks at hand. Drawing on research commissioned by Herman Miller, this course offers sensory design considerations for work environments that support four distinct types of teams.

### Teams at Work

*AIA Program Number: TeamsWork2022*
*Credits: 1 LU*
*IDCEC Course Number: CEU-109787-R2*
*Credits: 0.1*

Supporting teams is a critical strategy for organizations looking to improve performance and attract talent. Designing optimal environments for group work begins with understanding the unique needs of different types of teams. Drawing on research conducted by Herman Miller, this course identifies four distinct team types and offers design considerations for supporting the specific individual and group dynamics of each.

### The Mind and Individual Work

*AIA Program Number: MindIndivi22*
*Credits: 1 LU*
*IDCEC Course Number: CEU-109497-R2*
*Credits: 0.1*

As workplace design has moved toward a focus on maximizing collaboration and community, individual work began to suffer. The best workplace design, however, is balanced, supporting both collaborative and individual work. Drawing on research conducted by Herman Miller, this course identifies the five most common states of mind people seek to cultivate when they need to do individual work, outlines people's needs for each state of mind, and suggests ways that design can help meet those needs in order to achieve their desired state of mind.

### Welcoming Gen Z to the Workplace

*AIA Program Number: WGZ25*
*Credits: 1 LU*
*IDCEC Course Number: CEU-114804-R1*
*Credits: 0.1*

Beginning around 2017, the oldest members of Generation Z – born between 1995 and 2010 – began entering the workforce, bringing their values, expectations and experiences to a multigenerational workplace. Over the next decade, the younger members of Gen Z will also age into the workplace, creating a significant and influential proportion of the workforce with a point of view and priorities that in many cases, are vastly different from their older coworkers.

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# CEU Course Offering

**Designing a Daylight System: Finding the Right Shading Solution Credits**
*Approved by: AIA, IDCEC, pending USGBC*

Good daylighting design is critical to the performance of commercial buildings. Daylighting is particularly challenging due to the daily and seasonal variability. However, incorporating daylighting provides some enticing benefits, such as improved health and wellbeing, building aesthetics, energy savings, and building value. Choosing the right dynamic shading system is the key to achieving maximum daylight potential. This presentation will describe the important decisions when choosing a shading solution including control method, technology, and material properties. With this knowledge, you will be able to take full advantage of the available daylight to enhance building performance.

**Building Sustainability**
*Approved by: AIA, HSW, USGBC, IDCEC*

This course will define sustainability and its role in the built environment, identifying the benefits it can provide to people, buildings, and businesses. Participants will explore elements of environmental sustainability in this context and discover how to practically apply best practices in the design of lighting controls and shading solutions that facilitate and support sustainable spaces.

**Enhance Your Human Centric Lighting**
*Approved by: AIA, USGBC, IDCEC*

This course will identify the key elements of human-centric lighting and explain its importance to occupant well-being. Participants will learn how to appraise lighting fixtures for their ability to meet the quality standards of human-centric lighting and specify the appropriate control narrative or intent to support a human-centric lighting design.

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# CEU Course Offering

**Acoustical Design for Today's Buildings**
*Credits: 1 LU*
*Approved by: AIA|HSW, ASID, GBCI, IDS, IDC, IDCEC|HSW, IIDA & 54 State Licensing Boards*

Have you heard a great building lately? How someone experiences a building relies on the experience of all senses including sense of hearing. As soon as someone or something makes a sound, the acoustic design becomes evident. Poor architectural acoustics can negatively affect building occupants' concentration, comprehension, confidentiality, healing, and/or learning. By contrast, good sound qualities can add drama, vibrancy, and energy, enhancing the occupant experience. Join us to explore the many options available today that help architects design for acoustics without compromising their design vision.

**Acoustical Research Facility Tour**
*Credits: 1 LU*
*Approved by: AIA|HSW*

This program is a guided tour of an NVLAP certified acoustical research facility. Participants will learn the construction means and methods of such a facility and will gain an understanding of the ASTM tests for NRC, CAC, STC, and AC. Groups will also learn how construction assemblies can affect the performance of a space, designing for optimum privacy or intelligibility as well as reverberation time.

**Cementitious Wood Fiber Ceiling and Wall Solutions**
*Credits: 1 LU*
*Approved by: AIA, ASID, IDS, IDC, IDCEC|HSW, IIDA*

This seminar provides an education on interior Cementitious Wood Fiber ceiling and wall solutions along with its applications. The seminar will discuss the role of cementitious wood fiber specialty ceilings in commercial buildings and will evaluate how aesthetic choices interact with performance, safety, and durability in a broad range of standard, custom, and one-of-a-kind design options. Participants will examine key performance attributes including fire performance, acoustics, and sustainability and will be able to recognize how the manufacturing process of cementitious wood fiber panels determines their appearance, performance, lead time, and cost.

**Cementitious Wood Fiber for Structural and Acoustical Roof Decks**
*Credits: 1 LU*
*Approved by: AIA|HSW, IDCEC*

The selection and specification of cementitious wood fiber (CWF) roof decks in combination with CWF wall treatments can help make projects more sustainable while enhancing the aesthetic and acoustics of challenging large volume spaces. This CES program will inform and educate the professional designer and specifier of how CWF roof decks can be utilized in design as an alternative to other roof deck options that form the building envelope and the foundation for an effective roof assembly in all climate zones. Participants will learn the product attributes of cementitious wood fiber materials and how product attributes like size, R value, fire performance help to create a safe, visual pleasing and acoustical environment to meet recommended standards for learning environments. They will also gain understanding of carbon reduction and how use of CWF decks can help speed construction as well as the products contributions to LEED certification.

**Detailing Perimeters and Floating Elements in the Ceiling Plane**
*Credits: 1 LU*
*Approved by: AIA|HSW, IDCEC*

Detailing Perimeters and Floating Elements in the Ceiling Plane" helps participants compare and contrast different types of perimeter and trim treatments along with the benefits and draw backs of the various solutions. This one- hour course identifies key spaces where perimeter treatment is functionally and visually critical to the finished design of the ceiling plane in commercial interiors. The course also describes integration with lighting and HVAC and outlines code-based guidelines to keep in mind when designing the ceiling plane perimeter.

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**Healthy Design for Today & Tomorrow: Clean Air & Wellness from the Top Down**
*Credits: 1 LU*
*Approved by: AIA|HSW, ASID, IDS, IDC, IDCEC|HSW, IIDA*

The events of the past two years as related to the pandemic are redefining standards for health and safety protocols in all aspects of life, including indoor spaces. As employers, educators and building owners seek to reopen their facilities, they are looking for ways to meet the heightened expectations of their workers and occupants. Guiding these decisions are recommendations from industry organizations such as the American Society of Heating, Refrigerating and Air- Conditioning Engineers (ASHRAE), and the Environmental Protection Agency (EAP) which offer guidance on how changes to building operations, particularly HVAC systems, can reduce airborne exposures.

**IBC Seismic Code and Ceiling Installation Requirements**
*Credits: 1 LU*
*Approved by: AIA|HSW, ASID, IDS, IDC, IDCEC|HSW, IIDA*

This 1-hour course offers an overview of the IBC seismic design categories classifications and the effect of soil type, location, and building types on design categories and their installation methods and details, including alternative ceiling suspension designs.

**Integrating Ceiling and Lighting Solutions**
*Credits: 1 LU*
*Approved by: AIA|HSW, IDCEC*

This one-hour seminar will focus on understanding the importance of pre-engineering ceiling and lighting integration. It will cover common construction issues caused by uncoordinated ceiling and lighting conditions. The course introduces and educates participants on the value associated with pre-engineered ceiling and lighting solutions, as well as the Health, Safety, and Wellness contributions of good lighting practices.

**Radiant Heating and Cooling with Metal Ceilings**
*Credits: 1 LU*
*Approved by: AIA|HSW*

Radiant Heating and Cooling with Metal Ceilings is a one–hour course that presents an overview of how metal ceilings are used to deliver hydronic radiant heating and cooling as an alternative to forced-air heating ventilating and air conditioning systems. Sustainability, benefits such as improved indoor air quality, energy consumption savings, and improved acoustics are a few of the benefits outlined.

**How to Specify Seamless Acoustical Ceilings**
*Credits: 1 LU*
*Approved by: AIA|HSW, ASID, GBCI, IDS, IDC, IDCEC|HSW, IIDA*

Two major components of indoor environmental quality (IEQ) are aesthetics and acoustics. This course discusses ceiling systems that provide both qualities, leading to better health, safety, and well-being for occupants. It provides a historical exploration of ceiling systems that have evolved to meet occupant needs, incorporating materials that meet safety standards and exceed performance standards for sound absorption and speech intelligibility—all of which ultimately affect how people work, learn, heal, and play in ways that elevate the quality of their lives.

**Solving Healthcare Design Challenges with Ceiling Systems**
*Credits: 1 LU*
*Approved by: AIA|HSW, ASID, IDS, IDC, IDCEC|HSW, IIDA*

Solving Healthcare Design Challenges with Ceiling Systems identifies key challenges effecting healthcare today such as infection prevention and control, acoustics, and sustainable design. This seminar identifies and defines the design standards and guidelines for healthcare, including CDC Guidelines for Disinfection and Sterilization in Healthcare facilities, the FGI Guidelines for Design and Construction of Healthcare Facilities, and Green Guide for Healthcare. Learn evidence-based design strategies, how to select appropriate interior finishes, and implement a balanced acoustical design strategy.

**Specifying Metal Ceilings**
*Credits: 1 LU*
*Approved by: AIA|HSW*

Specifying Metal Ceilings" helps participants understand the attributes and benefits of using metal ceilings. This one- hour course identifies key segments and spaces where metal is being used today in commercial interiors, as well as its use in exterior applications. The course also describes the possibilities and limitations in specifying a variety of different sizes, shapes, and patterns.

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**Success in the Classroom Starts with Sound**
*Credits: 1 LU*
*Approved by: AIA|HSW, ASID, IDS, IDC, IDCEC|HSW, IIDA*

This presentation will provide architects and designers with a working knowledge of how current trends in acoustic design for classrooms can support improved learning environments for students, as well as increase the overall comfort and well-being of all occupants. Acoustics in classrooms should be a priority for designers as ambient background noise and intruding sounds can be a major distraction and nuisance for both students and educators. Elements to consider when addressing the acoustic performance of a classroom include controlling reverberation, background noise, and sound isolation. This presentation will offer specific instruction for architects when specifying materials within the classroom environment to ensure current standards are met, and acoustic performance is maximized.

**The Advantages of Drywall Grid**
*Credits: 1 LU*
*Approved by: AIA, IDCEC*

This one-hour seminar will focus on understanding the differences between traditionally framed drywall ceilings and pre-engineered drywall grid systems. We'll also discuss how to alleviate common pain points associated with framing flat and curved drywall ceilings.

**Understanding Code-compliant Integrated Ceiling Solutions**
*Credits: 1 LU*
*Approved by: AIA|HSW*

This seminar will help you understand new installation systems available that navigate the challenges of designing ceilings from one end of a building to another. The seminar will explain the design and construction benefits of pre- engineered integrated ceiling systems versus traditional ceiling design and construction practices as well as describe the environmental and occupant comfort benefits of pre-engineered systems versus traditional systems. Appling new construction practice knowledge to make informed product specification choices is important. The seminar will help Implement new construction methods to design ceilings that can be easily constructed and support the understanding of the value in collaborating early with your ceiling partner to ensure best practices are followed to meet your project design intent.

**What's New in LEED v4 and 4.1: Focus on Material & Resources (MR) & Indoor Environmental Quality (IEQ) for the Ceiling Category**
*Credits: 1 LU*
*Approved by: AIA|HSW, ASID, GBCI, IDS, IDC, IDCEC|HSW, IIDA*

LEED is the world's leading green building project and performance management system, delivering a comprehensive framework for green building design, construction, operations, and performance. Today's version of LEED v4, and LEED v4.1, raises the bar on building standards to address energy efficiency, water conservation, site selection, material selection, day lighting and waste reduction. Learn about the new updates in the USGBC LEED rating systems for both Version 4 and Version 4.1. Both of these rating systems revolutionize the areas of Material and Resources and Indoor Environmental Quality. We will review these sections in depth and show how the ceiling and walls category can contribute to the importance of healthier materials and healthier indoor environments.

**Wood Specialty Ceilings and Walls**
*Credits: 1 LU*
*Approved by: AIA|HSW, IDCEC*

Need help designing and specifying wood specialty ceiling systems that meet both design intent and installation, code, and schedule requirements? Join us to learn how wood can be used for today's popular ceiling design trends in standard, custom, premium, and one-of-a-kind systems to create high performance, constructible, inspiring spaces.

**Acoustical Research Facility Tour (Lancaster Campus Visit Only)**
*Credits: 1 LU*
*Approved by: AIA|HSW*

This program is a guided tour of an NVLAP certified acoustical research facility. Participants will learn the construction means and methods of such a facility and will gain an understanding of the ASTM tests for NRC, CAC, STC, and AC. Groups will also learn how construction assemblies can affect the performance of a space, designing for optimum privacy or intelligibility as well as reverberation time.

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**Design Symposium (Lancaster Campus Visit Only)**
*Credits: 6 LU*
*Approved by: AIA|HSW*

Design Symposium is an all-day program held at Armstrong headquarters in Lancaster, Pennsylvania. This seminar gives participants an intensive education in acoustical ceiling systems. It also includes hands-on learning, with various activities, workshops, and a tour of Armstrong's corporate campus, local acoustical ceiling plant, and laboratories.

**Creating Healthy Spaces Where Seniors Can Thrive**
*Credits: 1 LU*
*Approved by: AIA|HSW, ASID, GBCI, IDS, IDC, IDCEC|HSW, IIDA*

The population of adults over 65 years old is growing at an unprecedented rate. By 2034, older adults are expected to outnumber children for the first time in U.S. history. As individuals age, the body's ability to maintain a balanced integration of the organs, muscles, bones, immune and nervous systems decline. Planning for the environments where older adults live, work, and travel presents an opportunity to promote healthy living, adapted to meet the unique physical, mental, and biological needs of an aging population. In addition, the COVID-19 pandemic highlighted vulnerabilities to infectious disease for older adults and senior living communities. Older adults, especially those in senior living facilities, will continue to be vulnerable to infectious disease outbreaks, as well as familiar respiratory illnesses like influenza and pneumonia. Healthy building upgrades can have multiple benefits beyond infectious disease risk reduction, including imp roved comfort and cognition.

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HB BUILD

DIRTT

# CEU Course Offering

**How Industrialized Construction Will Shape the Future of Design**
*Credits: IDCEC, AIA | 0.5 CEU/0.5 LU*
*Course Format: Podcast*

A low-friction podcast CEU to familiarize audiences with Industrialized Construction.

**How Industrialized Construction Will Shape the Future of Design**
*Credits: 1 LU | IDCEC*
*Course Format: Online or In-Person Presentation*

The construction industry is poised for positive change. This course will explore the role of advanced manufacturing, human creativity, and technology as an enabler in industrialized construction. With the construction industry faced with multiple challenges, how can architecture and design respond to shape a new future for the built environment?

**DIRTT Design for Disassembly Virtual Tour**
*Credits: 1 LU | HSW*
*Course Format: Online Presentation*

A live exploration of the technology behind designing for disassembly.

**Sustainable Product Manufacturing**
*Credits: 1 LU | HSW*
*Course Format: Online or In-Person Presentation*

Explore sustainability through the lens of LCA, EPD, and HPD.

**Building With Benefits – Harness Multi-trade Offsite Construction for Healthcare**
*Credits: 1 LU | HSW*
*Course Format: Online or In-Person Presentation*

See how off-site construction leads to better Healthcare project and patient outcomes

**Design for Disassembly Virtual Tour**
*Credits: 1 LU | AIA, IDCEC*
*Course Format: Virtual Tour and Audience Participation*

Manufactured construction supports customized prefabricated solutions for interior spaces. It's innately sustainable and Designed for Disassembly. The key is technology. Real-time, interactive 3D software integrates with CAD, Revit, and manufacturing software, bridging the gap between the client design team and the manufacturer. This results in high-performance interiors that keep their value over time. Especially suited to projects where cost, quality and schedule certainty are of the essence, this type of construction promotes safety at the project site and can be specified to contribute to better indoor air quality. It also offers environmental sustainability, design control, and the ability to integrate technology seamlessly into the space.

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# CEU Course Offering

**Preservation & Engagement: Best Practices for Collections Storage and Facilty Planning**
*AIA Credits: 1 LU*
*IDCEC/HSW Credits: 1*

The purpose of this presentation is to help architects design museum collections storage areas that are safe, efficient, and engaging. The first part of the presentation will discuss museum workspace and workflow issues and how they are impacted by FF&E. The second portion will discuss structural and risk management issues unique to collections storage areas. The session will also include a brief discussion of the challenges and opportunities presented by making collections storage and work areas visible to the public.

**Making the Grade Through Versatile Design in the K-12 Environment**
*AIA/HSW Credits: 1 LU*
*IDCEC/HSW Credits: 1*

The environments and methodologies shaping the minds of young learners look vastly different today than they did even 5 years ago. No longer reporting to an assigned desk arranged neatly in a row, students now have opportunities to collaborate and learn all around the classroom and beyond. Due to the changing trends in pedagogy, flexibility is needed throughout the K-12 campus to keep students at the center and enable their success. This presentation will explore how designing spaces that are flexible and adaptable can facilitate positive learning outcomes and support the health and well-being of the entire school community. Participants will see real-world examples of how storage has assisted in creating transformative learning spaces. In addition, attendees will learn how utilizing High-Density Mobile Shelving and other storage solutions can help support LEED® certification and sustainability efforts.

**Growth, Change and the Future of Public Safety Design**
*AIA Credits: 1 LU*
*IDCEC Credits: 1*

We all have a right to feel safe in our everyday lives, and for the most part have been afforded this right due to the efforts of those in the public safety sector. This presentation explores how utilizing proper storage solutions can support these individuals in protecting and serving their community. Participants will examine current trends and challenges within the public safety environment and explore real-world examples of facilities that have incorporated solutions designed to create workflows, improve processes, boost productivity, and increase officer morale. In addition, we'll underline all the major planning requirements to consider such as floor loading, ventilation, lighting, and LEED® certification.

**Designing Healthcare Facilities: Improving Patient Care, Controlling Costs, and Saving Space**
*AIA Credits: 1 LU*
*IDCEC Credits: 0.1*

Space in healthcare centers is expensive to design, build, and occupy, and every cubic foot that's used for storage is space that could be used for patient care. This presentation counters the misconception that storage space is "wasted" because it doesn't visibly impact patient care and directly generate revenue. In fact, convenient and thoughtfully designed storage for supplies and equipment can improve productivity, patient care, and profitability. Participants will examine challenges within the healthcare environment that affect workflows and the health, safety, and welfare of occupants; learn how FF&E can contribute to occupant wellness and LEED certification; and view real-world case studies.

**Protecting and Preserving Materials for Civic, Public, Safety, and Higher Education Institutions with Off-Site Storage Solutions**
*AIA Credits: 1 LU*

Although the world is becoming more digital every day, analog materials like books, museum artifacts, and police evidence are still central to many institutions' missions. This presentation explores strategies for safely and efficiently storing and providing access to these valuable materials in off-site facilities. Participants will learn about trends driving the move to off-site storage, the storage requirements of analog materials, and the process of designing off-site facilities. We'll also cover real-world cases involving a university, a police department, a museum, and a public library.

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**Modernizing Capabilities and Enhancing Readiness With Storage Solutions for the Military**
*AIA/HSW Credits: 1 LU*
*IDCEC/HSW Credits: 1*

Learn about Department of Defense initiatives, and how storage solutions can support modernization and readiness of the military by department. This course explores how furniture, fixtures, and equtipment can maximize space, increase security, enhance occupant wellness, and contribute to DoD initiatives by incorporating functional solutions into military base design. Participants will learn how to leverage contracts as part of an effective acquisition method for their military clients.

**Integrating Storage Across Campus: How Adaptability Starts with Flexible Storage**
*AIA/HSW Credits: 1 LU*
*IDCEC/HSW Credits: 1*

Planning spaces for higher education environments is about much more than lecture halls and dorms - A campus is a place of learning and working, socializing and relationship building, wellness and discovery. This presentation will walk you through how to design facilities that not only help recruit & retain students and faculty, but also manage risk, improve efficiencies and safety, and help create flexible, future-proof spaces. This presentation will also outline trends and challenges that are impacting campus facility design and demonstrates how thoughtful storage solutions can help create highly functional interior spaces and directly influence the campus' ability to achieve its mission.

**Transforming Libraries to Meet Users' Changing Needs**
*AIA Credits: 1 LU*

Libraries have responded to the changing needs of the communities they serve, and are seeking to create more flexible, open, and technology rich spaces. Architects and designers are required to design for flexibility and openness within existing and limited spaces. In this course, architects and designers will learn how to combat these challenges by using furniture, fixtures, and equipment that are able to reduce the amount of space being used for book storage and increase the availability of space with flexible FF&E. Through the proper design and use of mobile FF&E, designers will be able to design libraries that respond to up and coming trends.

**How to Design for Space Constraints in Various Workspaces**
*AIA Credits: 1 LU*
*IDCEC Credits: 0.1*

Learn how to design for space constraints in a variety of workplaces from the office, to educational institutions, to museums and beyond. This course explores furniture, fixtures, and equipment that contribute to maximizing space through design. This course will provide participants with FF&E solutions that maximize space, are aesthetically pleasing, and contribute to occupant wellness. Participants will learn how functional solutions can be incorporated into a workplace's design and provide for occupants needs.

**Museum Collections Storage Space Planning: Designing Safe, Effcient and Engaging Spaces**
*AIA Credits: 1 LU*

This presentation compares and contrasts traditional storage products against today's flexible storage solutions. The focus is on illustrating how today's customizable storage solutions can contribute to sustainable design goals and LEED certification efforts by design.

**Floor Loading 101**
*AIA Credits: 1 LU*

Speed up the building design and decision-making process by avoiding unnecessary delays and changes with an ability to identify the new construction building types most suitable for high-density storage. Moreover, several strategies exist to accommodate heavy storage system loads. These include the ability to reorient, redistribute, relocate, reconfigure and reinforce. This program contains an illustrated case study as well as several examples of post construction modifications and supplements for high-density storage.

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