BE+ Public Course Catalog

Jump to Module:

Built Environment Plus (BE+) public courses are open to participation from anyone, inside or outside of MA. We schedule these courses based on interest from the green building community. Additional courses not listed may be available upon discussion with the BE+ Education team. Complete our **Training Interest Form** to let us know which courses or course topics your company is interested in attending: https://forms.gle/v8T817erKArwn1Aj9

All BE+ public courses are approved for funding under the Commonwealth of MA's **Workforce Training Fund Express Program**. Learn more about the Workforce Training Fund programs here: https://builtenvironmentplus.org/workforce-training-grants/

***Instructor companies and course costs listed are subject to change.**

1. Green Building Rating System Courses

Mod	Course Name	Course Description	Instructor*	Hours	Express ID#	Cost/Person*
1	**LEED Green Associate Exam Prep**	This LEED Exam Prep Course is a comprehensive course which will prepare attendees for the Green Associate exam. The curriculum is designed to cover the segments of the Green Associate Exam and to lightly cover the AP specialty exams. It will be a fast-paced class for real estate professionals, architects, engineers, and anyone else interested in green building practices and LEED. The majority of attendees have little previous knowledge of the LEED rating system, green building operations and green building construction. Upon completion of the class you will be eligible to sit for the LEED Green Associate exam at a local testing center. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	The Green Engineer	4 8	C-13630 C-2748	$350 $700
1	**LEED Building Design & Construction (BD+C) Exam Prep**	With this LEED AP Building Design and Construction training, you will know the requirements and calculations required for the following LEED credits: Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources, and Indoor Environmental Quality. You'll learn and practice the three exam areas – Recognition, Application, and Analysis, as well as be able to identify the key components of the LEED BD+C Rating System. Upon completion of the class you will be eligible to sit for the LEED BD+C exam at a local testing center. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	The Green Engineer	8	C-2610	$700
1	**LEED for MEP Engineers**	This course provides an overview of the LEED Rating system's energy, indoor environmental quality and plumbing credits. It drills down into what building engineers need to know to optimize LEED certification. Students will gain an understanding of energy modeling criteria, building energy metering requirements, refrigerant management and grid harmonization strategies. They will learn the fundamentals of potable water-use reduction and water metering. Finally, they'll become familiar with indoor air quality and thermal comfort requirements while also diving into lighting, daylight and views. This course is intended for building design engineers. It can be held virtually or in-person and is a combination of presentation and discussion.	The Green Engineer	2	C-2905	$175
1	**LEED Neighborhood Development Exam Prep**	With this LEED AP Neighborhood Development training, you will learn the requirements and calculations required for the following LEED credits: Smart Location & Linkage, Neighborhood Pattern & Design, Green Infrastructure & Buildings, Project Surroundings and Public Outreach. Upon completion of the class you will be eligible to sit for the LEED ND exam at a local testing center. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	TBD	4 8	– –	$350 $700
1	**Navigating LEED v5**	The LEED v5 training offers the opportunity to learn about the next iteration of the LEED green building rating system. The launch of LEED v5 began with LEED v5 for Operations and Maintenance (O+M) in September 2023. LEED v5 for Building Design and Construction (BD+C) will roll out in 2024. This training will take attendees on a guided tour of the new structure of the rating system, including an understanding of the integrated approach in LEED v5 for addressing the key issues of scale, decarbonization, health and well-being, resilience, equity, and biodiversity. This course will delve into the intricacies of the new version of LEED and highlight the key changes and enhancements that have been made.	The Green Engineer	2	–	$175
1	**LEED v5 - An Early Look**	1-hour interactive "Lunch & Learn" presentations to help your team understand the key updates, strategies, and certification pathways to navigate LEED v5 with clarity and confidence. These sessions are tailored for architects, developers, engineers, and sustainability professionals, offering: - A deep dive into the latest LEED v5 changes - Practical strategies for successful certification - Insights into decarbonization, equity, and performance - Q&A with our team of industry experts This webinar is held virtually and is a combination of presentation and discussion.	The Green Engineer	1	–	FREE

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1	**LEED for Cities and Communities Pro Training**	The LEED for Cities and Communities rating system has helped more than 415 projects in creating and operationalizing responsible, sustainable and specific plans for natural systems, energy, water, waste, transportation and many other factors that contribute to the quality of life—revolutionizing the way cities and communities are planned, developed and operated in order to improve their overall sustainability and quality of life. With this course, professionals working in the fields of the built environment, urban planning and sustainability, including consultants, government officials, NGO staff and students, will gain an opportunity to learn from USGBC staff and experts who have certified one or more LEED for Cities and Communities projects. This training is divided into two learning modules. In the first module, participants will get to know all credit categories and requirements with examples. USGBC staff and experts will share knowledge of certifying projects to this rating system. In the second module, participants will learn about the certification process, best practices and nuances of the data and documentation collection and working with Arc from USGBC staff and industry experts. This course can be held virtually or in-person and is a combination of presentation and discussion.	USGBC	8	C-11229	$150
Additional LEED trainings available upon request.						
1	**Intro to WELL Building Standard**	The Introduction to the WELL Building Standard provides an overview of the WELL Building Standard ideology, structure, and certification process. The medical basis for the concept categories is introduced along with design and construction strategies to create healthy buildings. This training will introduce how to reinvent buildings that are better for both people and the planet using the WELL Building Standard as the framework. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	The Green Enginner	2	C-2568	$175
1	**WELL AP Exam Prep**	This training will provide practical knowledge and understanding of the WELL v2 Building Standard by identifying the reference documents which the Standard is based on. This course will review the first 5 of 11 content areas of the WELL Building Standard, the WELL v2 concepts and their features, and WELL certification. The course will also review how the WELL AP exam is structured and the types of questions to anticipate. Upon completion of the course, it is strongly recommended that attendees continue studying the content covered in the course prior to sitting for the AP exam. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	The Green Engineer	8	C-2569 & C-2570	$700
1	**Designing for WELL: Strategies and Techniques for Achieving Certification**	The WELL Building Standard provides evidence-based design practices to improve human health through the physical and social environments we work, learn, and live in. As owners and developers increasingly seek WELL certification on their projects, designers are being asked to incorporate WELL principles into their plans. This class will teach designers what it takes to deliver a successful WELL project. Attendees will participate in a virtual course led by WELL Faculty with active projects and a track record of certification. The course presentation will include an outline of WELL requirements for designers, case studies, and discussion.	The Green Engineer	4	—	$350
1	**Fitwel**	Fitwel is a building rating system for commercial interiors and both multi-tenant and single- tenant existing buildings that provides guidelines on how to design and operate healthier buildings. Fitwel addresses health as an interconnected system, with no single dominant category or area of focus, and as such all strategies are voluntary. The course will cover the Fitwel Scorecards, Fitwel Star System and the seven Health Impact Categories. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	The Green Engineer	2	C-2763	$175
1	**Intro to SITES**	The Sustainable SITES Initiative is the most comprehensive system for creating sustainable and resilient land development projects. Land is a crucial component of the built environment and can be planned, designed, developed and maintained to protect and enhance the benefits we derive from healthy functioning landscapes. Participants will learn how to create ecologically resilient communities and benefits the environment, property owners, and local and regional communities and economies. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	The Green Engineer	2	C-2611	$175
1	**Just Communities: Community Drive Urban Re-Generation**	In this workshop intended for building industry professionals, you'll discover a framework to transform existing neighborhoods through the lens of Equity, Resilience and Climate Change and a process to create a roadmap and structure for communities to move forward under their own direction. The Just Communities Protocol is a template for bringing together community leaders and helpers (developers, architects and planners) to envision and create sustainable neighborhoods, working at the district or neighborhood scale. The Protocol was adapted from the EcoDistrict protocol which has been successfully used in a number of communities, ranging from new community development projects to existing densely populated neighborhoods, to build a community vision and plan for how to meet that vision. This course can be held virtually or in-person.	Linnean Solutions	4	C-2588	$350
1	**Intro to Living Building Challenge**	This training course will provide an overview of the Living Building Challenge - a philosophy, advocacy tool and certification program that addresses development at all scales. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Linnean Solutions	2	C-2652	$175

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1	**The Living Building Challenge**	With this training you will learn the basic knowledge of the Living Building Challenge - a philosophy, advocacy tool and certification program that addresses development at all scales. The Living Building Challenge is the built environment's most rigorous performance standard. It calls for the creation of building projects that operate as cleanly, beautifully and efficiently as nature's architecture. To be certified projects must meet a series of ambitious performance requirements, including net zero energy and waste and water, over a minimum of 12 months of continuous occupancy. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Linnean Solutions	4	C-2608	$350
1	**Passive House 101: An Introduction to Passive Buildings**	In this course, we will provide an overview of the Passive House building standard including certification metrics, common design elements, and net-zero potential, as well as the impacts Passive House has on carbon and health. Examples of various building types will be presented and information on funding opportunities will be provided. Get your questions answered on what Passive House is and how to achieve it, and see how it is expanding throughout the state and region. Both standards will be discussed.	Passive House Massachusetts	2	C-2571	$175
1	**Passive House 201: Technical Aspects of Design & Construction**	This session will take a deeper look into common design & construction strategies for achieving the Passive House standard. Concepts will include building envelope & insulation, air tightness, thermal bridging, testing & verification, and mechanical systems. A brief review of Passive House basics will be included, though some familiarity is recommended. Both standards will be discussed.	Passive House Massachusetts	2	C-2572	$175
1	**Phius Certified Consultant (CPHC) Training**	Phius Certified Consultant (CPHC®) training teaches students how to apply passive building principles in a cost-optimized, climate-specific manner. The training is geared toward architects, engineers and design professionals who want to take their high-performance building expertise to the next level. Projects earning Phius certifications (Phius CORE, Phius ZERO and Phius REVIVE) follow RESNET QA/QC protocols and achieve excellent HERS scores, US Department of Energy Zero Energy Ready Home status, and adhere to EPA indoor airPLUS requirements. The cost of the certification exam is not covered by the Express Grant Program, and must be paid for out-of-pocket by the company.	Phius	24	C-2542	$2,100
1	**Phius Certified Builder (CPHB) Training**	The Phius Certified Builder Certification is for tradespeople and construction professionals with field experience in construction and/or high performance building. This training prepares construction professionals to understand passive building techniques — airtight enclosures, high-performance window installation, passive design strategies, field quality assurance, and site management. For a project pursuing Phius Certification, these professionals ensure the building is built and operating to the plans and specifications. They are responsible for executing air-sealing and thermal bridge mitigation. This training is delivered live, online over 8 days. The cost of the certification exam is not covered by the Express Grant.	Phius	24	C-4262	$2,100
1	**Phius Certified Rater Training**	Phius Certified Raters focus on single-family residential projects. The course is geared toward experienced RESNET and BPI professionals, and provides grounding in passive building principles as well as a guide to onsite quality assurance for the Phius Certification program. This training is delivered live, online over three days. Each session is three hours. Training is open to all. Knowledge of HERs rating practices, and experience with Energy Star Homes, Indoor airPLUS and DOE ZERH Programs is helpful. Those who wish to pursue certification after training must meet the certification exam prerequisites, as well as apply and be approved to complete the exam. The course is a combination of presentation and discussion.	Phius	9	C-3770	$750
1	**Phius Certified Verifier Training**	Phius Certified Verifiers deliver on-site quality assurance for multi-family residential and non-residential passive building projects. This course is geared toward HERs Raters testing and commissioning multifamily buildings and professionals familiar with non-residential buildings. Training provides grounding in Phius building principles and onsite quality assurance for the Phius Certification program. Knowledge of HERs rating practices, Energy Star Homes, Indoor airPLUS and DOE ZERH Programs is helpful. Those who wish to pursue certification after training must meet certification exam prerequisites and be approved to complete the exam. This training is delivered live online and is a combination of presentation and discussion.	Phius	9	C-3896	$750
1	**Certified Passive House Designer (PHI) Training**	This course provides tools, techniques and tips for how to build via passive house principles for all building types, diving into Passive House building concepts and building a foundation of knowledge and skills to integrate PHI building design standards into building projects. This course is specifically designed to teach the international Passive House Standard (PHI) to design and construction professionals in the U.S. and is required prior to taking the CPHD/C professional certification exam. It can be held online or in person, and is a combination of presentation and discussion. An additional fee for course materials and the certification exam is not covered by the Express Grant and must be paid for out-of-pocket by the company.	The Passive House Network	16	C-2881	$2,295
1	**Green Professional Training (GPRO): Fundamentals of Building Green**	Buildings have a huge impact on the world around us. Compared to conventional buildings, high- performance buildings emit less carbon, reduce our footprint on the environment and improve our wellbeing. In GPRO Fundamentals you'll discover the connections between building systems and the foundational strategies for making them more sustainable. Whether you want to make changes to your building, or are starting a career in the building industry, you'll walk away with a new understanding of the built environment and the incredible difference that small changes can make. This training is ideal for anyone who needs a better understanding of high-performance building, including: sales or administrative staff who work in real estate, construction, architecture or engineering; workforce development providers; facilities and operations staff; and students interested in entering the building or construction industry. Each training is taught by a highly knowledgeable and experienced instructor. After completing the training, you can earn a GPRO Fundamentals Certificate by passing a 25-question multiple choice exam.	TBD	4 - 6	—	TBD

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1	**Green Professional Training (GPRO): Operations and Maintenance Essentials**	Building design and construction gets a lot of attention, but the majority of energy that a building uses over its lifetime comes down to how the building is operated and maintained. In GPRO O&M you'll learn how to execute the best practices of sustainable building operations and leave with an individualized action plan. You'll learn useful tools to measure building performance and straightforward strategies to reduce energy consumption and costs. This training is ideal for property managers and building staff involved in the operations and maintenance of both residential and commercial buildings, including: building superintendents and operators; facility and property managers; operating and stationary engineers; porters; and handypeople. Each training is taught by a highly knowledgeable and experienced instructor. After completing the training, you can earn a GPRO O&M Certificate by passing a 50-question multiple choice exam. Additionally, you'll gain access to short on-demand bonus courses on topics such as financing energy projects, interpreting energy audits, NYC Local Law 97 and more. Please note: GPRO Fundamentals of Building Green is integrated into this course, so you do not need to take both classes separately.	TBD	12	–	TBD
1	**Green Professional Training (GPRO): Construction Management**	Low-carbon, energy-efficient construction will play a critical role in complying with stringent building codes and achieving ambitious climate goals. These projects require an understanding of new technologies, implementation of new processes and improved coordination across disciplines. GPRO CM provides students with sustainability best practices and actionable strategies for every phase of construction. Learn how to avoid common construction mistakes and leave the training with practical steps to manage successful, sustainable and cost-effective projects. This training is ideal for a range of construction professionals, including: construction managers and general contractors; experienced tradespersons and trade forepersons; estimators and other office personnel; owner's representatives; project managers and site superintendents; and students and apprentices in construction fields. Each training is taught by a highly knowledgeable and experienced instructor. After completing the training, you can earn a GPRO CM Certificate by passing a 30-question multiple choice exam. Additionally, you'll gain access to short on-demand bonus courses on topics like construction waste management, energy code inspections, systems commissioning and more.	TBD	8	–	TBD
1	**Energy Code for Contractors and Owners: Lessons from the Field**	Join us for an engaging discussion exploring how the new energy code is being implemented across Institutional (including K–12), Large Commercial, and Multifamily building types. Industry experts will compare project typologies, sharing real-world challenges, lessons learned, and what's on the horizon. Topics will include pre-construction and cost considerations (a key concern for owners), execution of design intent on projects that have built in the new code, quality control strategies like mockups, and the role of design teams in accurate pricing. Owners and contractors alike will gain valuable insight into navigating potential pitfalls, anticipating added costs, and planning for success under the new code. Attendees are encouraged to submit questions in advance to shape the discussion. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	WinnCompanies, Consigli Construction, Turner Construction	2	C-14304	

End of Section

2. Sustainability Technical Courses

2	**Buildings and Carbon**	This course will focus on how we as practitioners can reduce the climate impacts associated with carbon emissions from the built environment. It will emphasize the importance of goal setting and identifying strategic actions to manage greenhouse gas emissions throughout a building's life cycle, including the operational phase, with a particular focus on embodied carbon. The course will begin with an exploration of the context of climate emissions from the built environment, covering topics including: the global carbon cycle and its relationship to the built environment; operational carbon, grid emission factors and building electrification, and emission reduction strategies beyond energy efficiency; embodied carbon, carbon storage, and the "time value" of carbon; and solutions for material selection, supply chain engagement, and policy engagement for addressing the climate impact of the built environment. Next, the course will explore applied strategies in the context of a design practice, covering topics including: goal setting and metrics of success; methodologies and strategies for conducting carbon analysis throughout the design process; carbon accounting tools, databases, and other resources to conduct embodied carbon analysis; and evaluating design workflows for opportunities to take action in carbon reduction in design and procurement. Finally, the course will guide participants through a facilitated discussion in which key barriers to and opportunities for implementing carbon reduction strategies in participants' practices are identified, discussed, prioritized, and formulated into an actionable list for participants to reference moving forward to actualize real carbon reduction in their work. This course is intended for building industry professionals. It can be held virtually or in-person and combines presentation and discussion.	New Frameworks	2 4	C-13697 C-2573	$175 $350
2	**Applied Strategies for Carbon Emission Reduction**	Building on the foundational knowledge of carbon emissions in the built environment, this course focuses on practical applications in design and construction practice. Participants will learn how to set carbon reduction goals, define key success metrics, and integrate carbon analysis into their workflows. The course will cover methodologies for conducting carbon assessments, available tools and databases for embodied carbon analysis, and strategies for aligning procurement decisions with emissions reduction goals. Case studies and facilitated discussions will help participants identify barriers and opportunities within their own practice, ensuring they leave with a clear, actionable plan for implementing carbon reduction strategies in their projects. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	New Frameworks	2	C-13705	$175

Mod	Course Name	Course Description	Instructor	Hours	Express ID#	Cost/Person
2	**Bio-Based Material Solutions**	Bio-based building materials are derived from renewable biological sources such as plants, fungi, algae, agricultural by-products, minerals, raw earth, and organic waste and provide low-carbon, regenerative alternatives to conventional construction materials. These materials address both embodied carbon and material health while offering co-benefits across five holistic impact categories. As project teams look for strategies to solve multiple different health and ecological problems, bio-based materials are emerging as leading non-toxic, low-carbon, biophilic material solutions. This course will survey the broad landscape of different bio-based building materials, their attributes and benefits, and the varying applications of these materials from structure to finish. Product examples and case studies will ground this review in practical reality, from off-the-shelf material substitution options to leading-edge regenerative material solutions. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	New Frameworks	2	C-13706	$175
2	**"Easy" Wins for Embodied Carbon Reduction**	There are many opportunities to reduce the embodied carbon of a building's design, but it can be hard to know where to start. Questions such as "What tools do I use?" "What if I've already started designing my project?" "How much will this all cost?" can easily stand in the way of taking action. In this presentation, the instructor will present a variety of proven strategies to reduce embodied carbon that can be implemented into your next – or even your current – project without requiring extensive LCA modeling. If you are looking to start implementing low carbon solutions into your projects and are looking for some strategies to get started, this is the presentation for you. Opportunities in the design process, in material selection, and in project specifications will all be addressed, as well as your questions. Join us and start reducing your project's embodied carbon footprint today! This course is intended for building industry professionals. It can be held virtually or in person and is a combination of presentation and discussion.	New Frameworks	2	C-9368	$175
2	**Designing with Impact in Mind**	With hundreds of green product certifications on the market and persistent greenwashing, it can be difficult for designers to know what kind of impacts the materials they select for a project are having on the health of our climate, ecosystems, communities, and on individuals. But with the introduction of an industry-aligned framework for evaluating sustainable materials, more informed decision making is finally within reach. This course will present the current challenges to measuring holistic product impacts and present the Common Materials Framework: a groundbreaking common language for product sustainability - and how to apply it in your practice today.	mindful MATERIALS	2	C-13608	$175
2	**Sustainable Acoustics**	In this course, we will discuss how architectural acoustics practice fits into the "Triple Bottom Line" framework of sustainability, especially the link between acoustics and occupant health and wellness. We present the fundamentals of acoustics in buildings: acoustic properties of building materials, designing for sound isolation between different spaces, the basics of noise control for the building mechanical system, and electronic sound masking – tying each of these concepts with design strategies to help achieve the acoustical requirements of common building rating systems, including LEED, WELL, Fitwel, BREEAM, and more. Finally, we tie all of the previous concepts to explore synergies of acoustical design with other green building strategies – such as environmentally friendly materials, smarter use of energy, water and material resources and improved indoor environmental conditions – and potential trade-offs. Project examples and stories from the field will illustrate each of the main concepts, along with interactive content during the seminar. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Acentech	2	C-2575	$175
2	**Intro to Healthy Materials**	The workshop will highlight the trends and the tools available to find and select healthier products, including: - HPDs, EPDs, transparency - Declare labels - C2C certification - Low-emitting materials - Low-embodied-carbon materials Participants will learn key product sustainability metrics and how to identify products and materials that are better for the environment and building occupants. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Brent Ehrlich	2	C-2574	$175
2	**Healthy Materials**	In this course, participants will learn which MR credits in LEED v4 your project can easily achieve, and what you need to know to get them. The MR credits in LEED v4 move us away from single-attribute product selection, and toward having a richer set of data to make more robust product selections. The following will be covered: - Product transparency and LEED - Health Product Declarations and Cradle to Cradle - Environmental Product Declarations - Sourcing of Raw Materials - Low-emitting materials, occupant health, and LEED - All About VOCs: content and emissions Intended for building industry professionals, course can be held virtually or in-person and is a combination of presentation and discussion.	Brent Ehrlich	6	C-2609	$525

Mod	Course Name	Course Description	Instructor	Hours	Express ID#	Cost/Person
2	**Healthy Materials Lab**	This course requires students to roll up their sleeves and dive into Healthy Materials by applying concepts they learned in the H.M. courses to their own work. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion. At the conclusion of the course participants will be able to : - Describe potential pathways that healthy materials follow from the selection process into projects - Explain how an integrated design approach can improve the material selection process - Explain strategies that designers can use to get products into specifications - Describe the challenges posed by value engineering and the impacts of regrettable substitutions	Brent Ehrlich	4	C-4800	$350
2	**Embodied Carbon in Concrete, Wood, and Steel**	This course looks at the carbon and environmental impacts of concrete, steel, and wood building materials, how they have improved over the years, and where they still fall short. The course will focus on concrete's carbon emissions problem and solutions, cement and concrete alternatives, the differing impacts of virgin and recycled steel, and the climate impacts of wood building materials (including mass timber and other engineered products). Forestry's carbon accounting and environmental impacts are complicated and in flux; the training will dig into some of those challenges and discuss how to move forward despite these complexities. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Brent Ehrlich, P.J. Melton	2	C-13610	$175
2	**Practical Product Selection: Choosing Green Materials for Common Products**	How do you find healthier, lower-carbon products among the numerous material options, rating systems, databases, and certifications? This course provides an overview of material choices in a couple of key product areas—insulation and resilient flooring in particular. Participants will learn the material health concerns of the product areas and will learn the basics of how to find better options. Built roughly around AIA's Architecture and Design Materials Pledge framework, the course is a first step towards learning about product selection. The methodologies learned can then be applied to other product areas.	Brent Ehrlich	2	—	$175
2	**Specifying Healthier Materials Beyond Just Checking Boxes**	Specifying materials that meet LEED v4 and v4.1 requirements has gotten easier. However, many projects stop at just meeting these requirements, when we could be doing much better. The course will provide information on specifying products and materials that are Living Building Challenge red list free, avoiding chemicals of concern from the Six Classes, specifying products with transparency labels, and finding healthier products through third-party certifications and publicly available databases. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	The Green Engineer, Kalin Associates	2	C-9006	$175
2	**Sustainable Lighting Design**	Lighting has contributed considerably to global warming through high energy use as well as requiring toxic materials to produce effective illumination. New considerations have emergy as new technologies have drastically reduced power requirements, including the reduction of light pollution, responsible material use, and impacts on wildlife. Participants will learn about technological developments, sustainable design considerations, methods for responsibly specifying hardware, and achieve a basic understanding of how LEED, WELL, CHPS, and Living Building Challenge handle sustainable lighting.	LAM Partners	2	C-2762	$175
2	**Circadian Lighting and Light in the Night**	Since we spend around 90% of our time indoors, our lighting design, for both electric luminaires and strategic use of daylighting, is of paramount importance for our health. Additionally, electric lighting (Artifical Light at Night or ALAN) has disrupted the delicate balance of the quality of light at night, creating an epidemic of light pollution and squelching the darkness. In this course, participants will learn the various properties of light that are important to consider for human health, and how these can be applied. Furthermore, we will explore the the impact of site lighting on the night sky and ways to design exterior and site lighting that minimize this impact. Through high-level discourse, practical considerations and design strategies, and a review of the LEED and SITES light pollution credits, this course will provide building industry professionals with a grounding in sensitive approaches to electric lighting in the outdoor nighttime. This course can be held virtually or in-person and is a combination of presentation and discussion.	LAM Partners	2	__	$175
2	**Daylighting**	In this course, participants will achieve a basic understanding of daylighting design process. They will recognize the key metrics of digital daylighting analysis, including annual simulations and glare analysis, as well as understand the basics of IES LM-83 and how it has set the standard criteria for various sustainable rating systems. Additionally, participants will utilize daylighting design strategies for architectural practice and cite examples from case studies. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	LAM Partners	2	C-2764	$175
2	**Life Cycle Assessment & Environmental Product Declarations: What You Need to Know**	Through this course for building industry professionals, you will learn the promise and pitfalls of LCA and EPDs, compare how the Living Building Challenge, Living Product Challenge, LEED and Green Globes address them and examine related advocacy opportunities, how to outline the history of political debate that surrounds LCA of building materials and emerging trends of environmental product declarations within the green building industry, and how to explain how various green building and product certifications are driving increased transparency about environmental impacts of building materials with a particular focus on LEED®, the Living Building Challenge and the Living Product Challenge. Course can be held virtually or in-person.	Linnean Solutions	2 4	C-13609 C-2576	$350 $700

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2	**Building Resilience and Vulnerability Analysis**	This training program will present tools and resources available both in and outside of Massachusetts for understanding hazards and vulnerability for projects and communities. The program will initially focus on the ResilientMA, Climate Ready Boston, and other localized resources, as well as presenting some resources for taking action. The focus will be on practical applications, utilizing real case study examples to demonstrate effective vulnerability assessment and relevant risk management strategies at both the individual site and neighborhood levels. Additionally, participants will learn how to effectively communicate this information to clients and navigate the complexities of regulation and insurance considerations. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Linnean Solutions	4	–	$350
2	**Indoor Air Quality Deep Dive**	Strategies to improve indoor air quality, including design of ventilation and filtration systems, reduction of indoor toxins, and indoor air quality monitoring systems. Includes references to the LEED and WELL standards. This course can be held virtually or in-person and is a combination of presentation and discussion.	Buro Happold	2	–	$175
2	**Stretch & Specialized Code Basics**	This course covers the 225 CMR 23.00 MA Commercial Stretch and Opt-in Specialized energy codes applicable from July 1, 2023 and including February 2025 updates. The presentation encompasses the different pathways available for code compliance, requirements for each section (envelope, mechanical, plumbing, and electrical), and an overview of how the different components work together. Participants will also learn how the Fossil Fuel Free Pilot communities program may use the Stretch Code as a tool to help meet building performance and electrification goals. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	The Green Engineer, Arrowstreet	2	C-13376	$175
2	**TEDI Modeling**	This course will review the method and best practices of conducting a Thermal Energy Demand Intensity (TEDI) model as required for compliance with the Stretch Energy Code. Case studies and lessons learned from permitted buildings will be used to demonstrate model results and balancing adjustments to design through the design process to reach a final compliant model. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	The Green Engineer, AIRLIT studio	2	C-11531	$175
2	**Mastering Backstop Calculations for Building Enclosures**	This course is designed for architects and senior architects with 5 to 10 years of experience in designing building enclosure details. The session will focus on enhancing literacy of the Massachusetts Stretch and Specialized opt-in energy codes with a focus on backstop calculations and the importance of early-phase design considerations and their impact. You will engage in a comprehensive learning experience that combines theoretical knowledge with practical application through a tell, show, and practice approach. By the end of this training, you will have a solid understanding of the Massachusetts Stretch and Specialized opt-in energy codes, knowledge of the steps and resources available to complete a backstop calculation, and be equipped with the skills to confidently apply them in your building enclosure designs. This training will not only improve your proficiency but also support your journey toward designing buildings that align with Massachusetts's low-carbon building mandate.	RDH Building Science	3	–	$265
2	**Building Science: Principles to Practice**	This comprehensive curriculum explores building enclosure design and performance in-depth and is designed to equip building industry professionals with the knowledge necessary to support their role in developing high-performance, energy-efficient, and comfortable buildings. Each session of this series delves into the core concepts and practical applications of building science, providing participants with a solid foundation to enhance their professional practice. Through the series of engaging live presentations, participants will learn about the key principles of building science, heat transfer, airtightness, thermal bridging, continuous insulation, glazing, moisture management, and rain control. Each presentation is enhanced with interactive content, activities, case studies, and discussions to ensure a thorough understanding of the material. The curriculum also addresses general code considerations for enclosures, preparing participants to consider local regulatory standards.	RDH Building Science	10	–	$875
2	**Energy Code for the Building Envelope**	This two-part training presents updated content covered in the Building Envelope Parts 1-3 trainings offered in the Fall/Winter 2024 Stretch Energy Code Training Series. This training is intended for new construction and existing building alterations and additions following the 225 CMR 23.00 Commercial Stretch Energy Code. Case studies and real-world calculation examples will reinforce key concepts, and attendees will apply their knowledge through hands-on exercises with a sample project. Part 1: Fundamentals of the Code for Building Envelope To achieve Massachusetts' net zero emissions goals, practitioners must prioritize building envelope design to reduce loads effectively. This course focuses on the prescriptive envelope requirements outlined in the 225 CMR 23.00 Commercial Stretch Energy Code and the fundamental principles of passive design, including air tightness, continuous high thermal layers, and condensation control. Participants will learn methods for determining U-factors of assemblies and best practices for documenting and specifying building envelopes early in a project to ensure compliance. Part 2: Advanced Thermal Performance & Derating in Building Envelopes Building on the principles introduced in Part 1, this session delves into thermal bridging and its impact on building performance. Participants will explore different types of thermal bridges and learn methods for derating assemblies to account for clear field, linear and point thermal bridges. The course will also cover steps for performing U-factor calculations that incorporate derating adjustments, as well as the hygrothermal considerations necessary for durable and high-performing envelope assemblies.	RDH Building Science, Arrowstreet, Elkus Manfredi Architects, Kalin Associates, The Green Engineer	5	C-13611	$440

Mod	Course Name	Course Description	Instructor	Hours	Express ID#	Cost/Person
2	**Energy Code for Low-rise Residential Buildings**	In this training, we will review the differences in Residential codes across Massachusetts' three energy codes – Base code, Stretch, and Net Zero – for Single Family Homes, existing, Additions, and Renovations. Various wall assemblies, air barriers, windows, and ceilings/roofs will be discussed. Participants will gain an understanding of the embodied carbon credit, as well as mechanical systems, solar systems, and electrical vehicle requirements. Additionally, participants will learn what is needed to build, test, and verify to the new code for these project types. While there are no prerequisites to join this training, it is recommended that attendees have already taken the level 1 courses taught by PSD and MassSave. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Dewing Schmid Kearns Architects + Planners, New Ecology	4	C-13612	$350
2	**Crack the Energy Code: Guide for MA Commercial Building Owners**	Join our course tailored for building owners to discover the latest Massachusetts energy code updates and their impact on your buildings, from new construction to existing building renovations and additions. Dive into current energy trends and innovative sustainable design practices and gain valuable insights to anticipate how the code will impact your building projects. Avoid pitfalls and drive your design teams to minimize cost impacts and risks. This course focuses on commercial buildings, which includes examples from healthcare, labs, and higher-ed buildings.	BR+A Consulting Engineers	2	–	$175
2	**Intro to Designing a Net Zero Building (for Owners and Developers)**	Participants will learn the components of net zero. It may seem out of reach, but firms are turning these hurdles into opportunities. Join us as we examine case studies, detailing integrated systems and creative solutions that make NZE a reality. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	BR+A Consulting Engineers	2	C-2590	$175
2	**Energy Codes and Trends (for Owners and Developers)**	This course will cover many rapidly evolving elements of sustainable design with particular attention to energy codes and trends applicable in Massachusetts. Topics will include the new Stretch Energy Code, local regulatory requirements such as BERDO and Zero Carbon Zoning, and trends in Net Zero design.	BR+A Consulting Engineers	2	C-2587	$175
2	**Ground Source Heat Pumps (for Owners and Developers)**	This course provides an overview of the basics of ground-source geothermal systems for buildings. Participants will gain an understanding of various approaches to including these systems in building design, including site considerations, sizing, and locations for the wells. An overview of several case studies will be covered. In addition, an interactive portion will allow participants to ask questions about current projects or discuss challenges to implementing these systems that have been encountered in the context of project delivery. This course can be held virtually or in-person and is a combination of presentation and discussion.	BR+A Consulting Engineers	2	–	$175
2	**High Performance MEP System Design**	This course provides a conceptual overview of the different MEP systems with an emphasis on mechanical. We will look into different considerations when designing with MEP systems including; energy source, cost efficiency, longevity, sizing/modulation, location, infrastructure requirements, current regulations, considerations, designing with carbon as a priority, and electrification. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	WSP	4	C-3454	$350
2	**Post Occupancy Evaluation (POE)**	Post occupancy assessments are the key to unlocking more value for both your client and your firm. For clients, so much happens after turnover that can impact operations and ultimately, performance so being able to conduct POEs can help your client achieve the best outcomes. For your firm, learning from your work is the only way to improve and not repeat mistakes and you can't learn if you don't look! This course takes you through the process from how to prepare (sometimes even before your project starts), different aspects of what makes great content for conducting an evaluation and how to leverage that data afterwards, including in marketing and business development. It does not matter if your clients are asking for POEs, this course will also show you how to build the demand and monetize the service.	Sustainable Performance Institute	4	–	$350
2	**High Performance Building Assemblies**	Why high-performance assemblies? And why now? Today we demand better thermal performance from our building assemblies than ever. But higher performance comes at a price: Designers and builders must pay attention to hundreds of hidden components. Things like corner joints. Window flashing. Hundreds of beads of sealant and runs of tape. Poorly designed, specified, or installed details in these areas can burden building owners with moisture and mold problems… façades falling to pieces… and drafty interiors that send tenants packing — sometimes, even suing.	Steven Winter Associates	6	–	$525
2	**High Performance Building Assemblies Lab**	This lab takes each of the principles covered in the High Performance Building Assemblies course content and implements the principles in benchtop/plan set to work. This course is intended for building industry professionals.	Steven Winter Associates	2	–	$175
2	**PV Design Basics**	This course covers the basic information and considerations for the design of a building mounted solar PhotoVoltaic array, including building massing, optimized angle, estimation of kW, pedestrian access paths, funding mechanisms. This course can be held virtually or in-person and is a combination of presentation and discussion.	Solar Design Associates	2	–	$175
2	**Neuro-Psychology of Architecture 101**	This course introduces architects to key ideas in neuroscience and psychology that transform our understanding of how buildings impact people. A key theme of the class is how subliminal, non-conscious behaviors, preset by evolution, provide the foundation for all architectural experience. The course reviews biometric tools, including eye tracking and facial expression analysis, showing how they give designers a new lens to 'see' our subliminal nature, and, by so doing, can be used to improve design outcomes, promoting individual and community health and well-being.	The Human Architecture and Planning Institute, Inc	3	–	$265

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2	**Neuro-Psychology of Architecture 201**	This course, Part II of the Neuro-Psychology of Architecture, delves further into key insights from neuroscience and psychology that transform our understanding of how architecture impacts people and how knowing them can improve design outcomes. The session discusses colors, shapes and symmetries, and how our responses are more hardwired than most realize. It includes discussion of 'narrative', how our brain is hardwired for story-telling, and why this is significant for architecture and urban planning.	The Human Architecture and Planning Institute, Inc	3	–	$265

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3. Software Courses

3	**Energy Modeling with eQuest**	Building Energy Modeling is a versatile, multipurpose tool that is used in new building and retrofit design, green certification, qualification for tax credits and utility incentives. The importance of creating energy models for a building is growing as we focus on building energy efficiency as a key strategy to fight climate change and global heating. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	The Green Engineer	12	C-4801	$700
3	**EnergyPlus for Practitioners**	This workshop is designed to get energy modeling practitioners up to speed and become highly productive with EnergyPlus. We cover the fundamentals of EnergyPlus, such as geometry and internal loads, while ramping up to advanced topics such as HVAC systems and controls. We guide you through the complexities of the EnergyPlus syntax, input/output files, documentation, and essential software tools including the Euclid extension for SketchUp. Most importantly, we teach you how to use the available resources to teach yourself going forward. By the end of the workshop, you should be comfortable with creating, running, and debugging EnergyPlus models. This course is held virtually and is a combination of presentation, demonstration, and exercises.	Big Ladder Software	10	–	TBD
3	**Tools for Building Life-Cycle Assessment (Tally)**	Life-cycle assessment (LCA) is a critical methodology that can be used by building design professionals to evaluate the climate impact of their projects. Participants will learn life-cycle assessment (LCA) terminology and basic concepts, how to incorporate LCA in design workflow, and how to conduct an LCA for a building project using the LCA tool Tally. Participants will be introduced to the Embodied Carbon in Construction Calculator (EC3) Tool, a free and open-source database of environmental product declarations (EPDs), and learn how Tally and EC3 can be used to inform specifications and achieve LEED points. The course is held virtually and is a combination of presentation, discussion, and in-session exercises.	Building Transparency	4	C-2779	$350
3	**Achieving Whole-Building LCA and EPD Credits for LEED (One Click LCA)**	This training provides an understanding of how to achieve whole-building LCA and EPD related credits on LEED projects. Attendees will learn how to easily handle the life cycle assessment process, as well as a comprehensive breakdown of LEED related credits and how to leverage One Click LCA for various LEED schemes. Learn the importance of embodied carbon calculations, the requirements of LCA credits in LEED v4 and v4.1, how to set baseline strategies in LEED v4 and v4.1, and common strategies for reducing building LCA impacts. The course is held virtually and is a combination of presentation, discussion, and in-session exercises.	One Click LCA	2	C-4342	$175
3	**Phius WUFI® Passive Advanced Multifamily**	WUFI Passive is a powerful tool that can enhance, streamline, and optimize the design and certification of passive building projects if integrated into the design process properly. This course is for multifamily WUFI Passive users that want to take their modeling to the next level - learning pro tips to ensure the full capabilities of the software are utilized – and concepts and skills learned can be applied to other building types. Students will explore tips to speed up and optimize modeling workflows – including insight on supplemental calculators and supporting tools to improve processes and streamline Phius Certification project submissions. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Phius	8	C-8402	$450
3	**Phius WUFI® Passive Single Family**	WUFI Passive is a powerful tool that can enhance, streamline, and optimize the design and certification of passive building projects if integrated into the design process properly. This course is both for those learning WUFI Passive for the first time and those who learned WUFI Passive during the Phius Certified Consultant (CPHC) training but have not had a chance to apply the tool yet. Students will model a single family home from start to finish, learn the typical modeling workflow, and complete an individual design exercise with instructor guidance and critique. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Phius	10	C-9666	$450
3	**Introduction to the Ladybug Toolkit**	This is an introductory course for building industry professionals that covers the most practical early design studies with Ladybug Tools and the overall philosophy of a flexible software toolkit. Participants will learn how to import and analyze weather data to answer specific design questions; create interactive climate visualizations that illustrate particular findings; set up custom geometry analyses to inform the decision making process; and customize the display of results to effectively communicate them to others. This course is useful for participants of all experience levels. It can be held virtually or in-person and is a combination of presentation and discussion.	Ladybug Tools	8	C-2675	$700

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3	**Fundamentals of Energy Modeling with the Pollination Rhino Plugin**	A course that covers essential energy modeling workflows with Ladybug Tools and the Pollination Rhino Plugin. Participants will learn to do the following: - Navigate the "World of Metrics" used to quantify value of design strategies - Build a simple energy model with the Pollination Rhino Plugin - Understand what drives energy use in a simulation using load balance graphics - Evaluate the impact of design strategies on HVAC size and cost - Understand the impact of design strategies on occupant thermal comfort Prerequisite - Introduction to the Ladybug Toolkit. Useful for participants of all backgrounds and highly recommended for people with limited energy modeling experience. **Additional trainings covering workflows from BIM to BEM with the Pollination Revit plugin; workflows from CAD to BEM with the Pollination Rhino plugin; detailed HVAC, daylight, and parametric studies with Pollination; and urban scale energy modeling with Dragonfly and URBANopt are available upon request.	Ladybug Tools	8	–	$700

End of Section

4. Leadership and Management Courses

4	**Aligning Project Delivery with New Outcomes: Zero Carbon, AIA 2030, & Integrative Design Principles**	Are you a zero-carbon-capable design firm? Are you an AIA 2030 Signatory struggling to meet EUI reduction targets? Is your project delivery based on integrative design principles helping ensure consistently high performance? This session is a practical approach for building industry professionals to assess their current situation, set pragmatic goals for the future, and understand which processes need to be put in place in order to align project delivery with those goals. Case studies will be shared, and participants will leave with information that they can implement to differentiate themselves in an increasingly competitive market. This course can be held virtually or in-person and is a combination of presentation and discussion.	Sustainable Performance Institute	4 8	C-4889 –	$350 $700
4	**Designing for the Future: Resilient Design and Operations**	To prepare for risks from climate change, buildings and communities must be designed to proactively manage and withstand these conditions. Designing for resiliency is made up of three key elements: engaging your client effectively to help them understand their vulnerabilities and target areas for critical investment, understanding how to design for passive survivability or disaster and learning how to engage with your team to optimize critical collaboration points. This session will use existing resilient design frameworks and exercises so that participants can apply concepts to real world projects. This course is intended for building designers, owners and operators. It can be held virtually or in-person as combo of lecture and discussion.	Sustainable Performance Institute	4	C-4872	$350
4	**Managing Change: Getting Buy-In and Traction on Any Initiative**	Every company has to implement new things - whether it is a new timesheet, new project management software, or a comprehensive initiative like sustainability, resilience or diversity and inclusion. In these unprecedented times, the challenges associated with change are heightened and intensified. How can a company navigate the process of change most effectively? How can you overcome resistance and build buy-in and momentum so there is faster adoption? How might your workflow and processes change in relation to new goals? How do you communicate effectively internally and externally? How can you engage employees at different levels and across different business units? How can you "lead up" if you want to advocate for a change so that leadership agrees and commits to something new? This interactive workshop digs into your unique business context and shows you how to apply the principles of change management so that you can be empowered to apply the same approach into the future, when new challenges arise. These strategies apply equally to any size firm and any discipline.	Sustainable Performance Institute	4 8	– –	$350 $700
4	**Communication Skills for Persuasion and Influence**	Many people start talking before their first birthday, so how come communication can be so difficult when we have so much experience? How can you evaluate the effectiveness of your communication style? How can you convince someone to do something? Sometimes the issue is between you and your team, and other times it is with a client or vendor. This workshop will help you build core communication skills to overcome resistance, strengthen your ability to influence others, and manage your emotions so they don't get in the way of communicating effectively. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Sustainable Performance Institute	4	C-3584	$350
4	**Talking with Clients about Resilience**	Resilience is a complicated topic spanning physical assets, operational functions as well as the psychological needs of the occupants and community. Clients can be resistant to engaging around any one of these topics and the building design alone has a host of its own issues that trigger concerns about cost and operation. This workshop combines the two critical aspects needed to overcome the inherent challenges; first the best ways to frame issues of analysis, design and construction and second the communication strategies that will be most likely to get buy-in and engage clients productively. This course is intended for building industry professionals. It can be held virtually or in-person and combines presentation and discussion.	Sustainable Performance Institute	4	C-2612	$350

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4	**Building Owner's Toolkit: Getting the Most from Your Design Teams**	Are you working with design teams who can meet the rising demands for net zero energy, carbon reduction, and resilience? Many owners and developers are not satisfied with the level of expertise of their teams. How do you determine who the capable firms are, ensure your process supports agile decision making, and know that your organization follows 'best practices'? What expectations should you put in RFPs? How do you weigh first cost against longer-term value? In addition to answering these questions and more, we will discuss resources and strategies that can be put to use immediately. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Sustainable Performance Institute	4	C-4890	$350
4	**Building Owner's Toolkit: Getting the Most from Your Design Teams (B) Applied**	This course builds on the previous one and participants reconvene to share back what they have done to implement items from the first workshop. We dive deeper into specific items including (but not limited to) RFP language, contracts, project roadmaps, quality control items, communication and change management approaches, internal standards and protocols and other implementation elements. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Sustainable Performance Institute	4	–	$350
4	**Sustainability Strategic Planning**	Does your organization have goals for sustainability or a plan to achieve sustainability outcomes over time? This workshop can help you regardless of your current state. If your company is an architecture firm who is or wants to be a signatory of the AIA 2030 Commitment, this workshop can help develop a sustainability action plan. Additionally, models for sustainability leadership will be addressed to help firms determine their own approach. Lastly, you will learn how to create an effective plan and implementation roadmap as well as how to get buy-in and overcome organizational silos. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Sustainable Performance Institute	4	–	$350
4	**Conflict Management**	Conflict is a normal part of human interaction, and yet conflict in organizations creates challenges for employees and managers alike and can undermine success. This workshop helps organizations, teams and leaders build skills and strategies for managing conflict effectively. The session looks at how conflict arises, how it escalates, and how people respond to it. It helps people manage their own responses to conflict, de-escalate conflict situations, uncover the interests driving conflict behavior, and move from conflict to resolution. The workshop is experiential interactive, and fun, focusing on providing relevant skills that the people can use immediately in their work.	Sustainable Performance Institute	3	–	TBD
4	**Building Highly Effective Teams**	Teams can thrive when trust is built and conditions are created that are conducive to success. Sometimes teams are brought together under challenging circumstances that may cause anxiety and stress due to unclear goals, mixed messages, and hidden conflicts. These dynamics lead to a lack of efficiency and poor decision making. This workshop focuses on ways to structure project interactions to maximize collaboration and help people understand how to contribute most effectively to set teams up for success. Participants will have the opportunity to apply concepts through exercises. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Sustainable Performance Institute	4	C-3583	$350
4	**Effective Meeting Facilitation**	In this 4-hour course instructed by the Sustainable Performance Institute, you will learn the techniques needed to foster full team participation and engagement and understand what makes a meeting effective. You will also learn how to prepare for an effective team meeting, incorporate strategies for handling meeting challenges, and develop goals and desired outcomes. This course is intended for building industry professionals. It can be held virtually or in-person and includes instructor presentation as well as application to work situations.	Sustainable Performance Institute	4	C-3458	$350
4	**Design Charrettes: A Tool to Manage Cost, Optimize Synthesis, and Achieve Excellence**	The demands for high performance, net zero, resilient design are growing. A key element to meeting these demands in the collaborative design process is the design "charrette" or workshop. Unfortunately, they often are underutilized and don't fulfill their full potential. This course is designed for owners, designers, and employees within the built environment industry who want to unlock the potential of their projects. Participants will leave with the strategies, templates, and guiding principles needed to use charrettes as a means of building effective teams, controlling costs, and coordinating strategies to keep projects on track. This course can be held virtually or in-person and is a combination of presentation and discussion.	Sustainable Performance Institute	4	C-3459	$350
4	**Solar Decathlon Professionals Training**	The Solar Decathlon Professionals Training is designed to provide building industry professionals with an opportunity to further develop their building science expertise and gain practical experience designing zero energy projects. Weekly course topics include high-performance project planning and goal setting; passive design; zero energy building; building envelopes; HVAC systems; lighting; plug loads; life cycle analysis; retrofits; and renewable energy. This advanced level course is intended for early to mid-level professionals looking to advance their knowledge and skills; facility managers who want to understand building sciences for their role in supporting net zero energy buildings; and/or higher education faculty who want to teach building sciences in their programs. This course is a combination of presentation or discussion and can be held virtually or in person.	The Green Engineer, USGBC	15	C-9005	$299
4	**Implicit Bias I: Implicit Bias Thinkshop**	This interactive session will feature a combination of brief presentations, group design, exercises, and facilitated, full-group discussions. The intent is for participants to deepen their knowledge and understanding of inclusivity and implicit bias in the broader employment market at this moment in time, within their organization, and in their own individual work. Implicit Bias I provides an overview. The focus of this workshop is to improve overall employee engagement and performance by maximizing inclusion and minimizing implicit bias in the workplace. This course is intended for building industry professionals. It can be held virtually or in-person and is a combination of presentation and discussion.	Design4Equity	3	–	$265

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