

2010 USGBC LEED® Core Curriculum Workshops

Please refer to the online course catalog (www.usgbc.org/courses) for updated course descriptions, listings, and additional USGBC education offerings, such as online courses and webinars.

NOTE: Curriculum release dates are subject to change.

Green Building Basics and LEED

100-level; Available Now; Half-day and Online

This workshop is intended for those who are new to green building and looking to learn the basics of green building and LEED. The workshop offers an introduction to USGBC, green building principles and the fundamentals of the LEED Rating System. It includes topics on climate change and building impacts; motivators for green building; and conventional versus integrative approaches - and the associated benefits - to building design, construction and operations. You will leave this course with a basic understanding of the intent, concepts and terms for each LEED credit category, as well as green building best practices, regulations and incentives.

This half-day workshop is for those seeking to learn only the basics. If you want to learn about LEED in greater detail, including specific strategies, metrics and standards - or if you are pursuing the LEED Green Associate credential - consider LEED Core Concepts & Strategies (offered as LEED Faculty-led or online) instead of this offering.

LEED 201: Core Concepts & Strategies

200-level; Available Now; Full-day and Online

This workshop is intended for anyone who wants more than a basic understanding of LEED - including those with a stake in their company's or community's building practices, those directly involved in green building projects, and those pursuing GBCI's LEED Green Associate credential.

The workshop provides essential knowledge of sustainable building concepts that are fundamental to all LEED Rating Systems. It begins with an introduction to the benefits and integrative approach to green building, and a brief background on the U.S. Green Building Council and LEED, including basics of the building certification process. The core of the workshop presents LEED intents and concepts at the credit category level - across building types and rating systems - touching on strategies, synergies, and specific examples that are reinforced by real project cases. Key LEED metrics and LEED referenced standards are addressed throughout the workshop. Interactive activities within the course keep you engaged and reinforce what you've learned. This course provides the foundation required for any 300-level LEED education offering.

BD+C 251: Understanding the Building Design + Construction LEED Rating Systems

200-level; Available May 2010; Full-day

*** Important Note: See full course description at the end of this document. ***

This workshop introduces the intent, key elements, main requirements and unique aspects of the Green Building Design & Construction (BD+C) family of LEED Rating Systems, which includes LEED for New Construction, Schools, and Core & Shell. Workshop participants gain a solid understanding of the core concepts and strategies behind a successful green new construction project.

Led by official USGBC LEED Faculty who are LEED and facilitation experts, the workshop covers the principles and benefits of green design as it relates to LEED for New Construction, Schools, and Core & Shell projects. It presents the background, unique aspects and limitations of these rating systems. The course provides an understanding of the scope of LEED BD+C projects, examining all prerequisites and credits in the rating systems' seven credit categories: Sustainable Sites (SS), Water Efficiency (WE), Energy and Atmosphere (EA), Materials

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and Resources (MR), Indoor Environmental Quality (IEQ), Innovation in Design (ID) and Regional Priority (RP). Throughout the day, participants engage in discussions and interactive activities to understand core green building design and construction concepts, synergies, and lessons learned on real-life LEED projects.

This workshop is intended for professionals who are familiar with the key components/structure of the LEED rating system and/or for professionals working in the building industry but not yet experienced with the LEED BD+C rating systems. It is appropriate for individuals who are pursuing GBCI's LEED AP Building Design + Construction credential. The course addresses the needs of all key stakeholders in a building design and construction project, including designers, architects, and engineers, among many others. Take this course to gain a solid understanding of the BD+C LEED rating systems and to establish the foundation you need to pursue your next level of knowledge: how to implement LEED.

O+M 251: Understanding the Operations + Maintenance LEED Rating System

200-level; Available June 2010; Full-day

*** Important Note: See full course description at the end of this document. ***

This workshop introduces the intent, key elements, main requirements and unique aspects of the LEED for Existing Buildings: Operations & Maintenance (EB:O&M) Rating System. Workshop participants will gain a solid understanding of the core concepts and strategies behind a successful green operations project.

Led by official USGBC LEED Faculty who are LEED and facilitation experts, the workshop covers the principles and benefits of green design as it relates to LEED EB:O&M. It presents the background, unique aspects and limitations of this rating system. The course provides an understanding of the scope of LEED EB:O&M, examining all prerequisites and credits in the rating systems' seven credit categories: Sustainable Sites (SS), Water Efficiency (WE), Energy and Atmosphere (EA), Materials and Resources (MR), Indoor Environmental Quality (IEQ), Innovation in Operations (IO) and Regional Priority (RP). Throughout the day, participants engage in discussions and interactive activities to understand core green operations and maintenance concepts, synergies, and lessons learned on real-life LEED projects.

This workshop is intended for professionals who are familiar with the key components/structure of the LEED rating system and/or for professionals working in the building industry but not yet experienced with the LEED EB:O&M rating system. It is appropriate for individuals who are pursuing GBCI's LEED AP Operations + Maintenance credential. The course addresses the needs of all key stakeholders in a building operations and maintenance project, including engineers, facility management, and tenants among many others. Take this course to gain a solid understanding of the LEED EB:O&M rating system and to establish the foundation you need to pursue your next level of knowledge: how to implement LEED.

ND 251: Understanding the LEED for Neighborhood Development Rating System

200-level; Available Now; Full-day

This workshop introduces the intent, key elements, main requirements and unique aspects of the LEED for Neighborhood Development Rating System. Workshop participants will gain a solid understanding of the core concepts and strategies behind a successful green neighborhood development.

Led by official USGBC LEED Faculty who are LEED and facilitation experts, the workshop covers the principles and benefits of green design, smart growth and New Urbanism as it relates to LEED for Neighborhood Development. It presents the background, unique aspects and limitations, and specific certification stages and processes of this rating system. The course provides an initial understanding of the scope of LEED for Neighborhood Development, examining all prerequisites and credits in the rating system's three credit categories: Site Location and Linkage, Neighborhood Planning and Design, and Green Infrastructure and Building. Participants are

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introduced to the characteristics of site plans and projects that may be appropriate candidates for LEED certification and throughout the day, engage in discussions and interactive activities to understand core LEED for Neighborhood Development concepts and synergies.

This workshop is intended for professionals who are familiar with the basic concepts of LEED and other rating systems, and/or for professionals working in neighborhood development but not yet experienced with LEED. It is appropriate for individuals who are pursuing GBCI's LEED AP Neighborhood Development credential (available Spring 2010). The course addresses the needs of all key stakeholders in a green neighborhood project, including planners, urban designers, architects, engineers, and developers.

BD+C 301: Implementing the Building Design + Construction LEED Rating Systems

300-level; Available Now; Full-day

This workshop is intended for professionals who are familiar with the basic concepts of the LEED for New Construction and Major Renovations Rating System, but new to implementing it on projects or looking to brush up on implementation best practices. It is appropriate for new LEED APs, as well as those pursuing GBCI's LEED AP Building Design + Construction credential.

The workshop addresses LEED tools and unique aspects of the New Construction rating system. Workshop participants will discuss the roles and responsibilities of key stakeholders in the LEED process, as well as strategies for communicating with team members at various stages of that process. Official USGBC LEED Faculty who are LEED and facilitation experts will walk the class through the phases of a typical project, including key decisions that project teams must make and guidance on how to make them. Throughout the day, you will engage with other participants in interactive activities using case examples to enable you to work hands-on with LEED implementation strategies and Rating System tools, including project forms from LEED Online v3. At the end of this workshop, you should be able to apply your newfound knowledge to real-life LEED projects.

O+M 301: Implementing the Operations + Maintenance LEED Rating System

300-level; Available Now; Full-day

This workshop is intended for building owners, operators and suppliers who are familiar with the LEED for Existing Buildings: Operations & Maintenance Rating System, but new to implementing it on projects or looking to brush up on implementation best practices. It is also useful for design professionals, investors and others seeking to enhance their existing buildings with green operations. It is appropriate for new LEED APs, as well as those pursuing GBCI's LEED AP Building Operations + Maintenance credential.

The workshop addresses LEED tools and unique aspects of the Existing Buildings: Operations & Maintenance rating system. Workshop participants will discuss the roles and responsibilities of key stakeholders in the LEED process, as well as strategies for communicating with team members at various stages of that process. Official USGBC LEED Faculty who are LEED and facilitation experts will walk the class through the phases of a typical project, including key decisions that project teams must make and guidance on how to make them. Throughout the day, you will engage with other participants in interactive activities using case examples to enable you to work hands-on with LEED implementation strategies and Rating System tools. At the end of this workshop, you should be able to apply your newfound knowledge to real-life LEED projects.

ID+C 301: Implementing the Interior Design + Construction LEED Rating System

300-level; Available Now; Full-day

This workshop is intended for professionals who are familiar with the basic concepts of the LEED for Commercial

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Interiors Rating System, but new to implementing it on projects or looking to brush up on implementation best practices. It is appropriate for new LEED APs, as well as those pursuing GBCI's LEED AP Interior Design + Construction credential.

The workshop addresses LEED tools and unique aspects of this particular rating system. Workshop participants will discuss the roles and responsibilities of key stakeholders in the LEED process, as well as strategies for communicating with team members at various stages of that process. Official USGBC LEED Faculty who are LEED and facilitation experts will walk the class through the phases of a typical project, including key decisions that project teams must make and guidance on how to make them. Throughout the day, you will engage with other participants in interactive activities using case examples to enable you to work hands-on with LEED implementation strategies and Rating System tools, including credit forms from LEED Online v3. At the end of this workshop, you should be able to apply your newfound knowledge to real-life LEED projects.

HOMES 301: Implementing the LEED for Homes Rating System

300-level; Available Now; Full-day

This workshop is intended for homebuilders and residential design professionals who are familiar with the basic concepts in the LEED for Homes Rating System, but new to implementing it on projects or looking to brush up on implementation best practices. It is appropriate for new LEED APs, as well as those pursuing GBCI's LEED AP Homes credential.

The workshop addresses LEED tools and unique aspects of the LEED for Homes rating system. Workshop participants will discuss the roles and responsibilities of key stakeholders in the LEED process, as well as strategies for communicating with team members at various stages of that process. Official USGBC LEED Faculty who are LEED and facilitation experts will walk the class through the phases of a typical project, including key decisions that project teams must make and guidance on how to make them. Throughout the day, you will engage with other participants in interactive activities using case examples to enable you to work hands-on with LEED implementation strategies and Rating System and verification tools. At the end of this workshop, you should be able to apply your newfound knowledge to real-life LEED for Homes projects.

REGREEN 301: Implementing Residential Remodeling

300-level; Available Now; 2 Full-days

This workshop is intended for design and construction professionals involved in implementing green remodeling strategies on residential retrofit projects. It is appropriate for professionals who are familiar with the basic building science and green building principles but who want to learn more about implementing climate specific energy, water, and resource efficient retrofit strategies. This workshop will discuss the unique factors inherent in retrofit projects, including the professional and client role in scoping, designing, constructing and maintaining a residential project.

The instructors will discuss the appropriateness and implementation of green strategies pertaining to site, foundation, building envelop, all major residential systems and equipment, applicable renewable energies, space utilization, finished surfaces, furnishings and fittings. Participants will also learn about applicable incentives and policies. Finally, instructor and students will explore the business side of green retrofits. Two case studies woven into the workshop will help illustrate key concepts and strategies as they relate to two radically different climate conditions.

Participants will be asked to come equip with their own residential retrofit case study. A large portion of the second day will be focused on student's individual case studies and applying what they have learned as well as fostering further discovery and conversation.

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ND 301: Implementing the LEED for Neighborhood Development Rating System

300-level; Available February 2010; Full-day

*** Important Note: Course Description is scheduled to change as it is still in development. ***

This workshop is intended for professionals who are familiar with the basic concepts of the LEED for Neighborhood Development Rating System, but new to implementing it on projects or looking to learn implementation best practices. It is appropriate for new LEED APs, as well as those pursuing GBCI's LEED AP Neighborhood Development credential (available 2010).

Workshop participants will discuss the roles and responsibilities of key stakeholders in the LEED for Neighborhood Development process, as well as strategies for communicating with team members at various stages of that process. Official USGBC LEED Faculty who are LEED for Neighborhood Development and facilitation experts will walk the class through the phases of a typical project, including key decisions that project teams must make and guidance on how to make them, using real case examples. You will engage with other participants in interactive activities to enable you to work hands-on with LEED implementation strategies and rating system tools. At the end of this workshop, you should be able to apply your newfound knowledge and best practices to real-life LEED for Neighborhood Development projects.

Homes 401: Green Rater Training

(More information coming soon. Green Rater training is only being offered in very strategic locations to start.)

Full Descriptions of New 200-Level Courses

BD+C 201: Understanding the Building Design + Construction LEED Rating Systems (200-level)

COURSE DESCRIPTION

This workshop introduces the credit intents, key elements, main requirements, and reference standards of the Green Building Design and Construction (BD+C) LEED rating systems. Workshop participants will gain a solid understanding of the core concepts and strategies of the following LEED rating systems: New Construction & Major Renovations (NC); Core & Shell (CS); and Schools – supporting successful green construction projects.

Led by official USGBC LEED Faculty™ who are LEED and facilitation experts, this workshop provides an understanding of the scope of the LEED BD+C rating system family, covering the distinctive aspects of each rating system within it. The course examines all prerequisites and credits in LEED BD+C's six credit categories: Sustainable Sites, Water Efficiency, Energy & Atmosphere, Indoor Environmental Quality, Materials & Resources, and Innovation in Design; it also addresses Regional Priority credits. The workshop introduces all of the credits, going into detail on the goals, intents, requirements, and strategies of prerequisites and selected key credits. The course also reinforces understanding of synergies between credits, and provides an overview of the LEED certification process, including basic documentation considerations. Throughout the day, participants will engage in discussions and interactive activities based on real-life projects to enforce what is taught about LEED BD+C prerequisites, credits, and concepts.

AUDIENCE

This workshop is intended for professionals who are already familiar with LEED (see recommended prior knowledge below). It is appropriate for individuals who are seeking a deeper understanding of the BD+C rating systems, whether they are pursuing GBCI's LEED AP BD+C credential or simply need to apply the rating system in their job. The course addresses the needs of key stakeholders in new construction or major renovation projects, including but not limited to architects, engineers, construction professionals, contractors, landscape architects,

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product manufacturers, and decision makers within the real estate, investment, and legal sectors who want to better understand specifics of the BD+C rating systems.

LEARNING OBJECTIVES

- Recognize the unique aspects of the BD+C rating system family, and differences between each rating system (NC, CS, and Schools) within this family.
- Identify the minimum program requirements for the BD+C rating systems.
- Describe the goal, intent, and requirements of BD+C prerequisites and key credits.
- Identify synergies between BD+C credits.
- Plan for key considerations and requirements for the LEED certification process.

RECOMMENDED PRIOR KNOWLEDGE

To ensure that you make the most of this workshop, you should be familiar with the concepts, elements and goals of green building and LEED. To ensure that you are, you should:

- Be an accredited LEED Green Associate or
- Have taken USGBC's *LEED Core Concepts & Strategies* (available self-paced online or LEED Faculty-led in-person) or be able to meet its learning objectives or
- Have read USGBC's *Green Building & LEED Core Concepts Guide*

YOUR REGISTRATION INCLUDES

- Instruction from official USGBC Faculty who are experts in LEED and trained in facilitation and adult learning techniques
- Participant workbook, which includes PowerPoint slides, interactive learning activities based on real LEED projects, and a glossary of key green building definitions
- Continuing education for 7 hours of instruction directly reported to AIA and CSI; certificate of completion for self-reporting to other professional organizations
- Continental breakfast, lunch and refreshments

This course is eligible for the GBCI credential maintenance program and, like all USGBC LEED education programs, meets GBCI eligibility requirements for the LEED Green Associate.

O+M 201: Understanding the Operations + Maintenance LEED Rating Systems (200-level)

COURSE DESCRIPTION

This workshop introduces the credit intents, key elements, main requirements, and reference standards of the Green Building Operations + Maintenance (O+M) LEED rating system. Workshop participants will gain a solid understanding of the core concepts and strategies behind a successful existing green building project.

Led by official USGBC LEED Faculty who are LEED and facilitation experts, this workshop provides an understanding of the scope of the LEED O+M rating system, examining all prerequisites and credits in LEED O+M's six credit categories: Sustainable Sites, Water Efficiency, Energy & Atmosphere, Indoor Environmental Quality, Materials & Resources, and Innovation in Operations; it also addresses Regional Priority credits. The workshop introduces all of the credits, going into detail on the goals, intents, requirements, and strategies of prerequisites and selected key credits. The course also reinforces understanding of synergies between credits, and provides an overview of the LEED certification process, including basic documentation considerations.

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Throughout the day, participants will engage in discussions and interactive activities to enforce what is taught about LEED O+M prerequisites, credits, and concepts.

AUDIENCE

This workshop is intended for professionals who are already familiar with LEED (see recommended prior knowledge below). It is appropriate for individuals who are seeking a deeper understanding of the O+M rating system, whether they are pursuing GBCI's LEED AP O+M credential or simply need to apply the rating system in their job. The course addresses the needs of key stakeholders in existing building operations and maintenance projects, including but not limited to building owners and operators, property and facility managers, engineers, contractors, product manufacturers, and decision makers within the real estate, investment, insurance, and legal sectors who want to better understand specifics of the BD+C rating systems.

LEARNING OBJECTIVES

- Recognize the unique aspects of the O+M rating system.
- Understand the costs, benefits, and ROI of using the O+M rating system.
- Identify the minimum program requirements for the O+M rating system.
- Describe the goal, intent, and requirements of O+M prerequisites and key credits.
- Identify synergies between O+M credits.
- Plan for key considerations and requirements for the LEED certification process.

RECOMMENDED PRIOR KNOWLEDGE

To ensure that you make the most of this workshop, you should be familiar with the concepts, elements and goals of green building and LEED. To ensure that you are, you should:

- Be an accredited LEED Green Associate or
- Have taken USGBC's *LEED Core Concepts & Strategies* (available self-paced online or
- LEED Faculty-led in-person) or be able to meet its learning objectives or
- Have read USGBC's *Green Building & LEED Core Concepts Guide*

YOUR REGISTRATION INCLUDES

- Instruction from official USGBC Faculty who are experts in LEED and trained in facilitation and adult learning techniques
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