NEO
NORTHEAST OHIO CHAPTER OF THE
USGBC

# Educational Series Webinars:



x = no course description available

BD & C

## LEED for New Construction – Sustainable Sites

This session explores the LEED Sustainable Sites category in a credit by credit format, reviewing the overall category intent and the individual intents of the prerequisites and credits within it. Learn the technical requirements of the credits and, through real-world case examples shared by USGBC LEED Faculty, strategies that work to achieve them.

Learning Objectives:

- Identify Sustainable Sites prerequisite and credit intents and requirements for LEED for New Construction 2009
- Recognize potential strategies and relevant team members for achieving Sustainable Sites credits
- Describe key Sustainable Sites metrics and standards
- Understand basic documentation considerations for Sustainable Sites
- Describe examples of Regional Priority credits related to Sustainable Sites
- Recognize tools and resources for applying Sustainable Sites credits to building projects

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |

BD & C

## LEED for New Construction – Water Efficiency and Innovation in Design

This session explores two LEED credit categories, Water Efficiency and Innovation in Design, in a credit by credit format, reviewing the overall category intents and the individual intents of the prerequisites and credits within it. Learn the technical requirements of the credits and, through real-world case examples shared by USGBC LEED Faculty, strategies that work to achieve them. This five-session webinar series focuses on the technical requirements of the LEED for New Construction and Major Renovations 2009 Rating System, addressing the rating system's seven credit categories: Sustainable Sites (SS), Water Efficiency (WE), Energy and Atmosphere (EA), Materials and Resources (MR), Indoor Environmental Quality (IEQ), Innovation in Design (ID) and Regional Priority (RP). Join us as USGBC LEED FacultyTM - both experts in LEED and skilled presenters - share personal case examples and demonstrate how credits have been successfully achieved on real LEED projects.

Learning Objectives: Upon successfully completing this webinar series, you should be able:

- Understand the LEED for New Construction and Major Renovations 2009 minimum program requirements
- Understand the LEED prerequisite intents and requirements; and credit intents and requirements.
- Recognize potential strategies and relevant team members for achieving LEED credits.
- Describe key LEED metrics and standards.
- Understand basic LEED documentation considerations.
- Recognize tools and resources for applying the LEED rating system to building projects.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |

BD & C

## LEED for New Construction – Energy and Atmosphere

This session explores the LEED Energy and Atmosphere category in a credit by credit format, reviewing the overall category intent and the individual intents of the prerequisites and credits within it. Learn the technical requirements of the credits and, through real-world case examples shared by USGBC LEED Faculty, strategies that work to achieve them. This five-session webinar series focuses on the technical requirements of the LEED for New Construction and Major Renovations 2009 Rating System, addressing the rating system's seven credit categories: Sustainable Sites (SS), Water Efficiency (WE), Energy and Atmosphere (EA), Materials and Resources (MR), Indoor Environmental Quality (IEQ), Innovation in Design (ID) and Regional Priority (RP). Join us as USGBC LEED FacultyTM - both experts in LEED and skilled presenters - share personal case examples and demonstrate how credits have been successfully achieved on real LEED projects.

Learning Objectives: Upon successfully completing this webinar series, you should be able:

- Understand the LEED for New Construction and Major Renovations 2009 minimum program requirements
- Understand the LEED prerequisite intents and requirements; and credit intents and requirements
- Recognize potential strategies and relevant team members for achieving LEED credits
- Describe key LEED metrics and standards
- Understand basic LEED documentation considerations
- Recognize tools and resources for applying the LEED rating system to building projects.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |

BD & C

## LEED for New Construction – Materials and Resources

This session explores the LEED Materials and Resources category in a credit by credit format, reviewing the overall category intent and the individual intents of the prerequisites and credits within it. Learn the technical requirements of the credits and, through real-world case examples shared by USGBC LEED Faculty, strategies that work to achieve them. This five-session webinar series focuses on the technical requirements of the LEED for New Construction and Major Renovations 2009 Rating System, addressing the rating system's seven credit categories: Sustainable Sites (SS), Water Efficiency (WE), Energy and Atmosphere (EA), Materials and Resources (MR), Indoor Environmental Quality (IEQ), Innovation in Design (ID) and Regional Priority (RP). Join us as USGBC LEED FacultyTM - both experts in LEED and skilled presenters - share personal case examples and demonstrate how credits have been successfully achieved on real LEED projects.

Learning Objectives: Upon successfully completing this webinar series, you should be able:
- Understand the LEED for New Construction and Major Renovations 2009 minimum program requirements
- Understand the LEED prerequisite intents and requirements; and credit intents and requirements.
- Recognize potential strategies and relevant team members for achieving LEED credits.
- Describe key LEED metrics and standards.
- Understand basic LEED documentation considerations.
- Recognize tools and resources for applying the LEED rating system to building projects.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |

BD & C

## LEED for New Construction – Indoor Environmental Quality

This session will explore the LEED Indoor Environmental Quality category in a credit by credit format. We will look at the overall intent of this category, as well as the individual intent of the prerequisites and credits within it. We will also discuss the requirements and verification steps necessary to achieve each credit and some real world examples of strategies used to fulfill each measure. This five-session webinar series focuses on the technical requirements of the LEED for New Construction and Major Renovations 2009 Rating System, addressing the rating system's seven credit categories: Sustainable Sites (SS), Water Efficiency (WE), Energy and Atmosphere (EA), Materials and Resources (MR), Indoor Environmental Quality (IEQ), Innovation in Design (ID) and Regional Priority (RP). Join us as USGBC LEED FacultyTM - both experts in LEED and skilled presenters - share personal case examples and demonstrate how credits have been successfully achieved on real LEED projects.

Learning Objectives: Upon successfully completing this webinar series, you should be able:
- Understand the LEED for New Construction and Major Renovations 2009 minimum program requirements
- Understand the LEED prerequisite intents and requirements; and credit intents and requirements.
- Recognize potential strategies and relevant team members for achieving LEED credits.
- Describe key LEED metrics and standards.
- Understand basic LEED documentation considerations.
- Recognize tools and resources for applying the LEED rating system to building projects.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |

BD & C

## Energy Consumption & EA Credit 1: Top 10 Energy Efficiency Measures for Load Reduction

The first step for reducing energy consumption of a building is to reduce the energy loads on the building. Consideration of load reduction techniques early in the design phase often comes at low or no added cost. During this webinar you will learn about best practices and top 10 strategies to reduce the energy loads on buildings. The session will highlight energy simulation as a design tool and key to successfully implementing EA Credit 1. The webinar will feature commercial building projects certified under the LEED for New Construction rating system.

Learning Objectives:
- Recognize energy load reduction techniques that support energy efficient building design and help earn credits under LEED NC: EACredit 1.
- Assess opportunities for integrating energy modeling across all stages of the decision making and planning process.
- Evaluate the pros and cons of energy modeling as a design tool for complying with LEED criteria.
- Discuss cost impact of load reduction measures by evaluating case specific examples.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |

BD & C

**Systems Design & EA Credit 1: Top 10 Energy Efficiency Measures for Demand Reduction**

Designing a system to meet the loads on the building is critical. Innovative and appropriate systems' design can reduce the energy the system uses to do the same amount of work. During this webinar, you will learn about best practices and top 10 strategies to reduce the energy demand of the systems. The session will highlight energy simulation as a design tool and key to successfully implementing EA Credit 1. The webinar will feature commercial building projects certified under the LEED for New Construction rating system.

Learning Objectives:

- Recognize energy demand reduction techniques that support energy efficient building design and help earn credits under LEED-NC: EA Credit 1.
- Assess opportunities for integrating energy modeling during systems design stage, decision making, and planning process.
- Evaluate the pros and cons of energy modeling as a design tool for complying with LEED criteria.
- Discuss cost impact of demand reduction measures by evaluating case specific examples.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |

BD & C

**Renewable Energy & EA Credits 1 & 2: Top 5 Strategies to Meet Energy Demand**

On-site renewable energy is the cleanest source of meeting energy demands of the building. Consideration given to designing on-siterenewable systems during the design phase can optimize the performance of the system. During this webinar you will learn about bestpractices and top 5/10 strategies to design on-site renewable energy systems. The session will highlight various design tools and keys to successfully implementing EA Credit 1 and EA Credit 2. The webinar will feature commercial building projects certified underthe LEED for New Construction rating system.

Learning Objectives:

- Recognize techniques that support designing on-site renewable energy and help earn credits under LEED-NC: EA Credit 1 and EA Credit 2.
- Assess opportunities for integrating energy modeling during systems design stage, decision making, and planning process.
- Learn ways of documenting the different renewable energy systems for LEED points.
- Discuss cost impact of demand reduction measures by evaluating case-specific examples.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |

BD & C

**Meeting IEQp1: Common Pitfalls and How to Avoid Them**

As project teams attempt to achieve the requirements of IEQp1, they often encounter common issues surrounding calculations and documentation. Join USGBC for this exciting webinar session, giving professionals the tools and resources necessary to meet the requirements of IEQp1 in multiple building types. Through real life examples and case studies, this session will provide strategies for HVACdesign professionals to overcome these obstacles in LEED projects and successfully meet the minimum indoor air quality requirementsset by ASHRAE Standard 62.1-2007.

Learning Objectives:

- Explore common reasons project reviewers deny calculations submitted under IEQp1.
- Identify ways to calculate ventilation rates for multiple zone recirculating systems that can lead to success in meeting ASHRAE Standard 62.1-2007.
- Investigate approaches for coordinating ventilation rates through design and construction phases of a project, including calculations, documentation, and submittals, in preparing documentation for LEED review.
- Examine building-type dependent challenges and strategies for meeting ASHRAE Standard 62.1-2007 in order to achieve IEQp1.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |

BD & C

**USGBC Presents - LEED 2009 for Healthcare - An Introduction to the Rating System**

Join USGBC for this two-part webinar series, introducing LEED 2009 for Healthcare and kicking off your understanding of the distinct green building practices related to sustainable healthcare facilities. Whether you are a green building professional looking to explore the vital differences in credits between LEED 2009 for Healthcare and LEED for New Construction, or a healthcare professional looking to comprehend what this new rating system means for your facility, this webinar series will introduce and address the key facts you'll need to understand the rating system. Part one will launch with the story of LEED 2009 for Healthcare, including a brief history on the development alongside the Green Guide for Healthcare (GGHC) and the unique challenges that the rating system addresses distinct from LEED for New Construction.

Learning Objectives:

- Articulate the unique issues for applying green building to Healthcare.
- Describe the background for the developmentof the LEED for Healthcare Rating System (including some brief info on USGBC and LEED generally and relationship with GGHC).
- Distinguish between LEED NC and LEED for Healthcare.
- Understand pilot credits relevant to LEED for Healthcare.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1.5 |

BD & C

## LEED for Healthcare: An Overview of the New Credits Through a Project Lens

Join USGBC for this two-part webinar series, introducing LEED 2009 for Healthcare and kicking off your understanding of the distinct green building practices related to sustainable healthcare facilities. Whether you are a green building professional looking to explore the vital differences in credits between LEED 2009 for Healthcare and LEED for New Construction, or a healthcare professional looking to comprehend what this new rating system means for your facility, this webinar series will introduce and address the key facts you'll need to understand the rating system. Part two will dive into the specific credits added and modified from the LEED for New Construction rating system.

Learning Objectives:

- Summarize key credit intents and requirements, and understand unique issues of healthcare projects.
- Discuss the value/business case for the use of LEED for Healthcare
- Apply the concept of evidence based design to sustainable/green healthcare projects.
- Articulate the connection between evidence based design and LEED for HC.
- Apply strategies from project case examples, specifically those from LEED for NC projects that incorporated ideas from GGHC and LEED for Healthcare
- Understand pilot credits relevant to LEED for Healthcare.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |

BD & C

## Building & Material Reuse: Understanding the Challenges, Celebrating the Successes, & Navigating the Credits

The LEED credits related to building reuse (Materials & Resources Credits 1.1 and 1.2) and material reuse (Materials & Resources Credits 3.1 and 3.2) are some of the least utilized credits within the rating system. In a time of increasingly limited resources and a growing awareness around sustainable stewardship, however, building and material reuse represents one of the ultimate forms of resource conservation. The reuse of existing built fabric can be economically pragmatic, nurture communities, and provide vision of how to live more sustainably.

Join USGBC for this exciting webinar session, addressing reuse and credit challenges and opportunities, innovative tools and resources available, and strategies to utilize reuse as a vehicle for creativityand sustainability. Upon completion of this webinar session, attendees will gain a greater understanding of how to integrate building and material reuse into their projects and useful strategies for navigating the related LEED credits.

Learning Objectives:

- Define foundational concepts related to building and material reuse.
- Outline credit intent and techniques that support credit achievement in Materials & Resources Credits 1.1, 1.2, 3.1 and 3.2.
- Discuss, through case studies and anecdotal stories, effective strategies and methods for building and material reuse.
- Identify tools and resources available to support designing with material reuse, material and team logistics, and LEED certification processes.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1.5 |

EBOM

## Green Operations & Multi-Tenant Engagement in LEED EB:O&M

This webinar will feature Daniel Simpson and Sukanya Paciorek sharing their experiences, successes, and failures in multi-tenant engagement for commercial real estate office buildings achieving LEED EB:O&M. Interested in learning how to work with tenants towards a common goal of sustainable operations?

Learning Objectives:

- Reach sustainability goals by actively engaging tenants
- Explore the different methods and strategies for getting buy-in from tenants
- Simplify the pursuit of LEED EB: O&M certification by properly engaging tenants

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1.5 |
| BOMI (CPD) | 1.5 |

EBOM

**O+M 252: LEED for Existing Buildings: Operations & Maintenance Credit-by-Credit Review - Materials and Resources**

This session explores the LEED for Existing Buildings: Operations & Maintenance Materials and Resources category in a credit by credit format, reviewing the overall category intent and the individual intents of the prerequisites and credits within it. Learn the technical requirements of the credits and, through real-world case examples shared by USGBC LEED Faculty, strategies that work to achieve them.

Learning Objectives:

- Understand LEED for Existing Buildings: Operations and Maintenance 2009 minimum program requirements; prerequisite intents and requirements; and credit intents and requirements
- Recognize potential strategies and relevant team members for achieving LEED credits
- Describe key LEED metrics and standards
- Understand basic LEED documentation examples
- Recognize tools and resources for applying the LEED rating system to existing buildings

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED O+M Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |
| CSI (CEU) | 1.5 |

LEED General

**LEED 251: Strategies for Success in LEED - Indoor Air Quality, CO2 Monitoring, and LEED**

Interested in understanding successful strategies for improving indoor air quality and increasing energy efficiency through CO2 monitor use? This webinar is the second in our “Strategies for Success in LEED” series, designed to teach individuals about strategies useful in meeting LEED requirements in various credit categories. Join us as USGBC staff and experts in the field give you the information and resources necessary to:

Learning Objectives:

- Understand the importance of CO2 monitoring in building projects
- Identify the LEED requirements related to improving indoor air quality (IAQ) through CO2 monitoring
- Explore strategies useful in meeting LEED requirements related to CO2 monitoring

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| GBCI CE Hours (LEED O+M Specific) | 1.5 |
| AIA/CES (LU) | 1 |
| CSI (CEU) | 1 |

LEED General

**LEED 251: Strategies for Success in LEED - Daylighting Strategies & LEED: A Connection to the Outdoors**

Join industry experts for a discussion of the ins-and-outs of daylighting strategies - and how they can be used to successfully achieve LEED credits. The third installment of “Strategies for Success in LEED” webinar series is designed to expand on your knowledge of daylighting and LEED and highlight key lessons learned from practitioners in the field.

Learning Objectives:

- Understand the importance of incorporating daylighting into a building project
- Identify the LEED requirements related to daylighting and improving IEQ
- Explore strategies useful in meeting LEED requirements related to daylighting
- Examine daylighting strategies through LEED project examples

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| GBCI CE Hours (LEED O+M Specific) | 1.5 |
| AIA/CES (LU) | 1 |
| CSI (CEU) | 1 |

LEED General

**LEED 251: Strategies for Success in LEED - Reducing Water Use with LEED**

Interested in further understanding how to reduce water use in your next building project - and meet LEED credits at the same time? This webinar is the fourth in our “Strategies for Success in LEED” series, designed to teach individuals about strategies useful in meeting LEED requirements in various credit categories. Join us as USGBC staff and experts in the field give you the necessary information and resources.

Learning Objectives:

- Understand the importance of reducing water usage in building projects
- Explore LEED requirements related to water use reduction
- Discuss strategies useful in meeting LEED requirements related to water use reduction
- Identify resources useful in understanding water use reduction

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| GBCI CE Hours (LEED O+M Specific) | 1.5 |
| AIA/CES (LU) | 1 |
| CSI (CEU) | 1 |

LEED General

## LEED 251: Strategies for Success in LEED - LEED & Renewable Energy Techniques

Interested in furthering your understanding of the urban heat island effect and ways to reduce it? This webinar is the fifth in our “Strategies for Success in LEED” series, designed to teach individuals about strategies useful in meeting LEED requirements in various credit categories

Learning Objectives:

- Understand the importance of renewable energy
- Identify the LEED requirements related to utilizing renewable energy
- Explore strategies useful in meeting LEED requirements related to renewable energy

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| GBCI CE Hours (LEED O+M Specific) | 1.5 |
| AIA/CES (LU) | 1 |
| CSI (CEU) | 1 |

LEED General

## LEED 251: Strategies for Success in LEED - Regional & Renewable Materials in LEED

Interested in furthering your understanding of renewable and regional materials and ways to successfully incorporate their use? This webinar is the sixth in our “Strategies for Success in LEED” series, designed to teach individuals about strategies useful in meeting LEED requirements in various credit categories.

Learning Objectives:

- Understand the importance of renewable and regional materials
- Identify the LEED requirements related to renewable and regional materials
- Explore strategies useful in meeting LEED requirements related to renewable and regional materials

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED BD+C Specific) | 1.5 |
| GBCI CE Hours (LEED O+M Specific) | 1.5 |
| AIA/CES (LU) | 1.5 |
| CSI (CEU) | 1.5 |

LEED General

## LEED Implementation on Campus: Strategies from Higher ED, Government and Commercial Real Estate

This webinar will address the unique opportunities and challenges of implementing LEED in a campus setting. Relying on an experienced group of practitioners, the session will address specific applications of LEED within government, commercial real estate and higher education settings. Strategies for identifying campus-wide credits and mechanisms for having credits approved by the Green Building Certification Institute (GBCI) will inform participants on best practices across a diverse landscape of campus types.

Learning Objectives:

- Understand the unique opportunities and challenges presented by LEED on multiple campus types Identify the bestcredits to pursue on multiple LEED projects on campus.
- Become knowledgeable of how to submit documentation to GBCI in a streamlined process for LEED projects on a shared site.
- Recognize best practices of pursuing LEED credits in higher education, government and commercial real estate.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1.5 |

LEED General

## Green Building Codes 101: Navigating the Standards, Codes, and Rating Systems

As the landscape of sustainable construction practice expands into mainstream construction practice, many in the land use development, construction, and real estate communities are left asking, “How do model construction codes, consensus standards, and voluntary rating programs work together to drive ‘green’ construction practice into the mainstream consciousness of society?”

Join leaders in your field from four key associations in the green building industry to help you navigate the landscape of sustainable construction practice. They will provide perspective, frame the facts and discuss the issues you need to be aware of to make sense of how these predominant programs work together to drive “green” construction practices into the marketplace. You will walk away with an understanding of what you know (and don’t know) about the relationship between model construction codes, consensus standards, and voluntary rating programs and their impact on your profession.

Learning Objectives:

- Define key codes, standards, green building rating systems, and the relationship between them.
- Outline the intent of each of the key codes, standards and green building rating systems - including the International Energy Conservation Code, International Green Construction Code, ASHRAE 189.9, ASHRAE 90.1, and USGBC LEED Rating Systems.
- Identify the current andnew building industry players associated with codes, standards, and green building rating systems.
- Understand the impact of codes, standards, and green building rating systems on your role in the building industry.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1.5 |

Neighborhood Development

## LEED for Neighborhood Development Credit-by-Credit Review - Getting Started

The first session of a six-part series, this will provide background information about the LEED for Neighborhood Development Rating System, while at the same time setting the stage for the following five sessions in the series.

Learning Objectives:

- Identify appropriate project types for LEED for Neighborhood Development
- Describe key LEED for Neighborhood Development terms and definitions
- Understand LEED for Neighborhood Development prerequisite and credit intents and requirements, and potential LEED strategies
- Explain the LEED for Neighborhood Development registration and certification process
- Recognize LEED for Neighborhood Development tools and resources

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED ND Specific) | 1.5 |
| AIA/CES (LU) | 1 |

Neighborhood Development

## LEED for Neighborhood Development Credit-by-Credit Review - Key Terms & Definitions

This session covers the unique key terms and definitions within the LEED for Neighborhood Development Rating System.

Learning Objectives:

- Identify appropriate project types for LEED for Neighborhood Development
- Describe key LEED for Neighborhood Development terms and definitions
- Understand LEED for Neighborhood Development prerequisite and credit intents and requirements, and potential LEED strategies
- Explain the LEED for Neighborhood Development registration and certification process
- Recognize LEED for Neighborhood Development tools and resources

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED ND Specific) | 1.5 |
| AIA/CES (LU) | 1 |

Neighborhood Development

## LEED for Neighborhood Development Credit-by-Credit Review - The Prerequisites

This session will highlight all the prerequisite credits within the LEED for Neighborhood Development Rating System.

Learning Objectives

- Identify appropriate project types for LEED for Neighborhood Development
- Describe key LEED for Neighborhood Development terms and definitions
- Understand LEED for Neighborhood Development prerequisite and credit intents and requirements, and potential LEED strategies
- Explain the LEED for Neighborhood Development registration and certification process
- Recognize LEED for Neighborhood Development tools and resources

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED ND Specific) | 1.5 |
| AIA/CES (LU) | 1 |

Neighborhood Development

## LEED for Neighborhood Development Credit-by-Credit Review - Smart Location & Linkage

This session covers in-depth the credits in the Smart Location & Linkage category of the LEED for Neighborhood Development Rating System.

Learning Objectives:

- Identify appropriate project types for LEED for Neighborhood Development.
- Describe key LEED for Neighborhood Develop ment terms and definitions.
- Understand LEED for Neighborhood Development prerequisite andcredit intents and requirements, and potential LEED strategies.
- Explain the LEED for Neighborhood Developmentregistration and certification process.
- Recognize LEED for Neighborhood Development tools and resources.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED ND Specific) | 1.5 |
| AIA/CES (LU) | 1 |

Neighborhood Development

## LEED for Neighborhood Development Credit-by-Credit Review - Neighborhood Pattern & Design

This session highlights the credits within the Neighborhood Pattern & Design category of the LEED for Neighborhood Development Rating System.

Learning Objectives:

- Identify appropriate project types for LEED for Neighborhood Development
- Describe key LEED for Neighborhood Development terms and definitions
- Understand LEED for Neighborhood Development prerequisite and credit intents and requirements, and potential LEED strategies
- Explain the LEED for Neighborhood Development registration and certification process
- Recognize LEED for Neighborhood Development tools and resources

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED ND Specific) | 1.5 |
| AIA/CES (LU) | 1 |

Neighborhood Development

## LEED for Neighborhood Development Credit-by-Credit Review - Green Infrastructure & Buildings

The last of the six-part series surround the LEED for Neighbhorhood Development Rating System, this session covers in detail the credits within the Green Infrastructure & Buildings credit category.

Learning Objectives:

- Identify appropriate project types for LEED for Neighborhood Development
- Describe key LEED for Neighborhood Development terms and definitions
- Understand LEED for Neighborhood Development prerequisite and credit intents and requirements, and potential LEED strategies
- Explain the LEED for Neighborhood Development registration and certification process
- Recognize LEED for Neighborhood Development tools and resources• Define key codes, standards, green building rating systems, and the relationship between them.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED ND Specific) | 1.5 |
| AIA/CES (LU) | 1 |

Neighborhood Development

## ND 201: LEED for Neighborhood Development: Sustainability Beyond Buildings

### - Green Communities: Bringing Smart Growth & New Urbanism into LEED

Where communities are built, how communities are designed, and how they ultimately perform has a tremendous impact upon the environment and nearby residents of a neighborhood. Smart Growth and New Urbanism are two leading strategies for sustainable design that compliment green design in the new LEED for Neighborhood Development certification system. In this 100-level webinar session, you will learn more about these two planning philosophies, and how they can be implemented on the project level.

Learning Objectives: Upon successfully completing this webinar series, you should be able:

- Describe the basics of the LEED-ND rating system and current development status of the post-pilot rating system
- Analyze the principles of smart growth and New Urbanism and their role in shaping LEED-ND
- Explain the appropriate locations for LEED-ND projects within a region from urban to suburban to certain adjacent sites and strategies for identifying eligible parcels
- Identify the challenges projects have faced in the pilot program and the strategies used to overcome those obstacles

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED ND Specific) | 1.5 |

Neighborhood Development

## ND 201: LEED for Neighborhood Development: Sustainability Beyond Buildings

### - Strategies for Urban Infill & Brownfield Redevelopment

USGBC has been testing the strengths and weaknesses of LEED for Neighborhood Development through nearly 240 pilot projects over the course of two years. Hear from two pilot case studies about lessons learned and best practices that have helped inform revisions to the rating system. In the second of three sessions introducing you to LEED for Neighborhood Development, presenters will briefly describe the pilot project they have worked on, identify implementation challenges, and review areas where the rating system influenced project decision making.

Learning Objectives: Upon successfully completing this webinar series, you should be able:

- Describe the basics of the LEED-ND rating system and current development status of the post-pilot rating system
- Analyze the principles of smart growth and New Urbanism and their role in shaping LEED-ND
- Explain the appropriate locations for LEED-ND projects within a region from urban to suburban to certain adjacent sites and strategies for identifying eligible parcels
- Identify the challenges projects have faced in the pilot program and the strategies used to overcome those obstacles

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED ND Specific) | 1.5 |

Neighborhood Development

## ND 201: LEED for Neighborhood Development: Sustainability Beyond Buildings - A Tool to Retrofit the Suburbs

The global economic crisis has shown that the rampant outward growth of most American metropolitan regions is both environmentally and financially unsustainable. With large retailers going out of business and many suburban jurisdictions looking to alter their zoning codes and encourage more compact development, there are many opportunities to create walkable, urban places in the suburbs. In this final session, learn how LEED for Neighborhood Development can be used as an urban design tool in appropriate suburban locations to encourage this type of development through certified pilot case studies.

Learning Objectives:

- Gain knowledge about the LEED for Neighborhood Development Rating System and its applicability from pilot case studies.
- Compare LEED for Neighborhood Development technical strategies from certified pilot projects located in suburbanlocations.
- Explain the challenges faced by LEED for NeighborhoodDevelopment pilot projects and the strategies used to overcome them.
- Identify key reasons why development teams of ownerschose to pursue LEED for Neighborhood Development certification for a suburban development project

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| GBCI CE Hours (LEED ND Specific) | 1.5 |

Innov. & Research

## Greenhouse Gases & Green Buildings: Understanding and Achieving Key Reduction Goals

Join USGBC for an important online session bringing you the tools you need to understand fundamental concepts, accounting requirements, important reduction goals related to reducing greenhouse gas emissions and the cutting-edge strategies needed to meet these goals.

Learning Objectives:

- Understand the nexus between built environments and greenhouse gas emissions
- Explore sources of greenhouse gas emissions across the lifecycle of built environments, including planning, design, construction, & operations
- Review new Federal mandates for greenhouse gas emissions accounting & public disclosure for public facilities, new reporting protocols & tools
- Introduce state-of-the-art greenhouse gas emissions reduction goals for high-performance buildings and communities, including the joint USGBC/Clinton Climate Initiative Climate Positive Standard

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1 |
| BOMI (CPD) | 1 |

Innov. & Research

## The Costs and Benefits of Green Building - Putting the Research into Practice

Green buildings can cost less than conventional ones, but de pending on a number of factors it's not a guarantee. However, researchon the costs and benefits of green buildings provides evidence suggesting that they yield a convincing return on investment in addition to other forms of value. In this session USGBC and three leading experts will give you the understanding you need to present the business case for green buildings, including addressing questions about return on investment, project financing, cost planning, and value beyond cost savings. Real estate owners, investors, and other building professionals will leave this training with the knowledge they need to shape initial project planning and financing.

Learning Objectives:

- Summarize the current state of cost, benefit and finance research for new commercial and institutional green buildings.
- Describe the various research methods that have been employed to measure the costs and benefits of green building
- Gain practical insights and guidance that you can apply to your own building projects
- Become conversant in the business case for green buildings and value beyond cost savings, and address questions about project underwriting and cost planning

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1.5 |
| CSI (CEU) | 1.5 |

Innov. & Research

## 405 Howard Street - A LEED EB-O&M Case Study

Multi-tenant building owners and managers are presented with unique challenges and opportunities when pursuing LEED EB:O &M certification. 405 Howard St, a multi-tenant office building in San Francisco achieved platinum certification by pursuing cost effective operational strategies with direct benefit to the bottom line. Join us as the professionals closest to this effort - the building owner, property manager, and LEED consultant - highlight the process, strategies, and decision making that contributed to this successful project. Attendees will leave this training with a better understanding of EB:O&M, through innovative operational strategies and key advice on overcoming challenges in the process.

Learning Objectives:

- Evaluate innovative and cost-effective operational strategies for multi-tenant office buildings  Identify challenges and opportunities associated with various aspects of a project timeline
- Compare roles of various project teammemb ers in successful implementation of a multi-tenant EB:O&M project
- Prepare to apply lessons learned to current and future project work

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1.5 |

Innov. & Research

## Climate Adaptation & the Built Environment - Tools & Resources for Success

Green building is widely-recognized as valuable strategy to mitigate climate change by reducing greenhouse gas emissions. The decisions we make about how to design, build, and operate built environments have important consequences and will determine the severity of climate impacts. Join the USGBC Research Department and expert panelists as they discuss the application of practical green building and urban design strategies to prepare for changing conditions. This session aims to provide an understanding of what local, state, and federal governments can do to build resilience and reduce the potential for negative outcomes.

Learning Objectives:

- Define the relationship between climate mitigation, climate adaptation, and the built environment.
- Develop a basic understanding of design strategies which can be used build resilience and adapt the built environment to changing conditions.
- Identify tools and resources that local, state, and federalgovernments can use to prepare for climate change.
- Empower decisions makers with the necessary resources to buildcommunity resilience and plan for changing climatic conditions.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1.5 |

Innov. & Research

## Health and Active Design through Green Building

In the 19th and early 20th centuries, architects and urban reformers improved buildings, streets, neighborhoods, clean water systems, and parks, in order to combat the spread of infectious disease and improve public health. Today, designers can still play a crucial role in combating some of the most rapidly growing public health epidemics of our time, including obesity, diabetes, and heart disease. A growing body of research suggests that evidence-based architectural and urban design strategies can positively impact public health by promoting regular physical activity and healthy eating.

Active design provides architects and urban designers with strategies for creating healthier buildings, streets, and urban spaces, based on the latest academic research and best practices in the field.

Learning Objectives:

- Define and explore the principles behind active design.
- Evaluate active design strategies at both an urban and building level scale that can be used to increase the health of communities.
- Outline synergies between active design and sustainable design initiatives such as LEED and PlaNYC.
- Understand how active design can be integrated into your projects through initiatives such as the LEED Innovation in Design Credit: Design for Increased Health Through Physical Activity.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1.5 |

Residential

## The Keys to Green Affordable Housing - Affordable Green Multifamily Retrofits

This webinar will discuss key issues in the affordable housing sector, including: green multifamily retrofit projects, sustainable operations and maintenance of affordable housing buildings, and financial and incentive aspects of affordable projects.

Learning Objectives:

- Apply an effective approach and key considerations to successful and affordable green multifamily retrofit projects
- Identify cost effective strategies that make measurable impacts on green multifamily retrofits.
- Explore incentives and financeopportunities available for green multifamily retrofits.

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1.5 |

Residential

## The Keys to Green Affordable Housing - Green Operations and Maintenance Strategies for Affordable Housing

Join USGBC for an important, free educational program - bringing you the tools you need to understand the intersection between green building and affordable housing. Introducing The Keys to Green Affordable Housing: A Guide for Existing Multifamily Properties, a new online training designed to address key issues in the affordable housing sector, including: green multifamily retrofit projects, sustainable operations and maintenance of affordable housing buildings, and financial and incentive aspects of affordable projects. Register today for the three-part online training series, The Keys to Green Affordable Housing.

Learning Objectives:

- Identify key sustainable facility management strategies that improve building efficiency and create healthier housing
- Explore how to ensure long term durability and keep costs down for building owner
- Employ effective resident education and foster changes in resident behavior
- Understand the role of sustainable design in affordable housing projects

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1 |
| CSI (CEU) | 1 |

Residential

## The Keys to Green Affordable Housing - Data Collection and Analysis of Green Affordable Housing

Effective data collection and analysis helps measure a project's success and informs the future decisions of involved professionals. This session will discuss the costs and benefits of building green affordable housing, giving you tips to aid you in successfully tracking the benefits and savings of green practices. You will also walk away better equipped to analyze and utilize collected data in an impactful way. Finally, the session's presenters will discuss currently available data analysis tools and how those tools can assist you in data collection and analysis.

Learning Objectives:

- Evaluate the costs and benefits of building green affordable housing
- Successfully track the benefits and savings of green practices
- Analyze and utilize collected data to benefit future decision making
- S3: Identify available tools to aid in data collection and analysis

| Credential Maintenance | Units |
|---|---|
| GBCI CE Hours | 1.5 |
| AIA/CES (LU) | 1 |
| CSI (CEU) | 1 |