Training course on Green Building Certifications (LEED, EDGE, WELL) for Infrastructure

Professional Development Training Course Outline

Category	Civil Engineering and Infrastructure Management	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In response to global climate change and the growing demand for sustainable development, the construction and infrastructure sectors are increasingly adopting green building practices. While green building certifications are well-established for commercial and residential buildings, their application and relevance to large-scale infrastructure projects are gaining significant traction. These certifications, such as LEED (Leadership in Energy and Environmental Design), EDGE (Excellence in Design for Greater Efficiencies), and WELL Building Standard, provide a structured framework for designing, constructing, and operating infrastructure assets with reduced environmental impact and enhanced social benefits. Moving beyond mere compliance, these standards offer a pathway to demonstrate verifiable sustainability performance, attract green financing, and foster innovation across the project lifecycle. Training Course on Green Building Certifications (LEED, EDGE, WELL) for Infrastructure is specifically designed to equip civil engineering and construction professionals with the specialized knowledge and practical skills required to navigate, implement, and achieve various green building certifications for complex infrastructure projects. Participants will gain a deep understanding of the criteria, methodologies, and documentation requirements associated with leading green building certification systems as they apply to roads, bridges, water treatment plants, energy grids, and other critical infrastructure. The curriculum will cover the nuances of each standard, including their focus on energy efficiency, water conservation, material selection, site ecology, and human health and well-being within the infrastructure context. Through a combination of detailed theoretical modules, practical exercises, and real-world case studies of certified infrastructure projects, attendees will learn how to integrate green building principles from the conceptual design phase through construction and operation. This course is indispensable for engineers, project managers, sustainability consultants, and government officials committed to elevating the environmental and social performance of infrastructure. By mastering these certification frameworks, professionals can drive sustainable innovation, enhance project value, and contribute significantly to building a more resilient and environmentally responsible built environment for future generations.

Programme Curriculum

Training Course on Green Building Certifications (LEED, EDGE, WELL) for Infrastructure

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Course Objectives

Upon completion of this course, participants will be able to:

1. Understand the fundamental concepts and benefits of green building certifications for infrastructure.
2. Differentiate between major green building certification systems (LEED, EDGE, WELL) and their applicability to infrastructure.
3. Navigate the specific credit categories and requirements of LEED for Infrastructure (e.g., LEED for Cities and Communities, LEED for Neighborhood Development).
4. Apply EDGE certification principles to infrastructure projects for resource efficiency in energy, water, and embodied materials.
5. Explore the relevance and application of WELL Building Standard concepts to infrastructure for human health and well-being.
6. Develop strategies for integrating green building certification requirements into early project design and planning phases.
7. Identify and select appropriate sustainable materials and technologies to meet certification criteria.

8. Master the documentation and verification processes required for achieving green building certifications.
9. Evaluate the economic and environmental benefits of pursuing green building certifications for infrastructure.
10. Formulate a comprehensive plan for achieving a selected green building certification for a hypothetical infrastructure project.
11. Understand the role of commissioning and ongoing performance monitoring in maintaining certification.
12. Communicate the value proposition of green infrastructure and certifications to stakeholders.
13. Leverage green certifications to access sustainable financing and market advantages.

Target Audience

This course is essential for professionals seeking to apply green building certifications to infrastructure projects:

1. Civil Engineers: Involved in the design, construction, and operation of infrastructure.
2. Project Managers: Overseeing infrastructure development and seeking sustainability credentials.
3. Sustainability Consultants: Advising on green building strategies for large-scale projects.
4. Urban Planners: Integrating green principles into city and regional infrastructure development.
5. Government Officials: Responsible for public infrastructure projects and sustainable procurement.
6. Architects & Landscape Architects: Designing public spaces and infrastructure components.
7. Developers & Investors: Interested in green financing and sustainable infrastructure assets.
8. Environmental Managers: Responsible for environmental performance in construction companies.

Course Duration

5 Days

Course Modules

Module 1: Introduction to Green Building Certifications for Infrastructure

- Define green building and its importance in the context of infrastructure.
- Overview of major global green building certification systems (LEED, EDGE, WELL).
- Discuss the specific relevance and benefits of certifications for infrastructure projects.
- Explore the evolution of green building standards to include infrastructure.
- Understand the typical certification process and project lifecycle integration.

Module 2: LEED for Infrastructure: Concepts and Implementation

- Detailed exploration of LEED for Cities and Communities and LEED for Neighborhood Development.
- Understand LEED credit categories: Smart Location & Linkage, Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources, Innovation.
- Learn documentation requirements and performance metrics for LEED certification.
- Analyze case studies of LEED-certified infrastructure projects.
- Strategize for achieving different LEED certification levels (Certified, Silver, Gold, Platinum).

Module 3: EDGE Certification for Resource Efficiency in Infrastructure

- Introduction to the EDGE standard and its focus on energy, water, and embodied energy in materials.
- Understand the EDGE software and its role in demonstrating efficiency.
- Apply EDGE principles to various infrastructure components (e.g., pumping stations, administrative buildings within a transport hub).
- Learn the EDGE certification process, including auditing and verification.

- Discuss the benefits of EDGE for developing economies and rapid urbanization.

Module 4: WELL Building Standard and Human Health in Infrastructure

- Explore the WELL Building Standard's core concepts: Air, Water, Nourishment, Light, Fitness, Comfort, Mind.
- Discuss how WELL principles can be adapted and applied to public infrastructure (e.g., public transport hubs, parks).
- Identify opportunities for enhancing human health and well-being through infrastructure design.
- Understand the WELL certification process and performance verification.
- Analyze the social benefits and community impacts of WELL-certified infrastructure.

Module 5: Sustainable Materials and Resource Management for Certification

- Identify material requirements across LEED, EDGE, and WELL certifications.
- Learn about Environmental Product Declarations (EPDs) and Health Product Declarations (HPDs).
- Discuss strategies for selecting low-impact, recycled, and locally sourced materials.
- Explore construction waste management plans to meet certification targets.
- Understand the role of material circularity in achieving green certifications.

Module 6: Energy and Water Efficiency Strategies for Certified Infrastructure

- Implement energy modeling and optimization techniques for infrastructure assets.
- Explore renewable energy integration and smart grid solutions.
- Discuss advanced water conservation strategies (e.g., rainwater harvesting, greywater recycling).
- Learn about efficient irrigation systems and native landscaping.
- Analyze the interplay between energy and water efficiency in certification pathways.

Module 7: Site Ecology, Biodiversity, and Community Engagement

- Understand site selection and development strategies to minimize environmental disturbance.
- Explore strategies for protecting and restoring biodiversity on infrastructure sites.
- Discuss sustainable stormwater management and green infrastructure solutions.
- Learn about community engagement and social equity requirements in certifications.
- Analyze the impact of infrastructure on local ecosystems and human communities.

Module 8: Project Management and Future Trends in Green Infrastructure Certification

- Develop a project management framework for pursuing green building certifications for infrastructure.
- Understand the roles and responsibilities of different project team members.
- Discuss cost-benefit analysis and financial incentives for green certification.
- Explore emerging trends: Net Zero certifications, resilience standards, and digital twins for performance.
- Review global case studies and lessons learned from certified infrastructure projects.

Training Methodology

- **Interactive Workshops:** Facilitated discussions, group exercises, and problem-solving activities.
- **Case Studies:** Real-world examples to illustrate successful community-based surveillance practices.
- **Role-Playing and Simulations:** Practice engaging communities in surveillance activities.
- **Expert Presentations:** Insights from experienced public health professionals and community leaders.

- **Group Projects:** Collaborative development of community surveillance plans.
- **Action Planning:** Development of personalized action plans for implementing community-based surveillance.
- **Digital Tools and Resources:** Utilization of online platforms for collaboration and learning.
- **Peer-to-Peer Learning:** Sharing experiences and insights on community engagement.
- **Post-Training Support:** Access to online forums, mentorship, and continued learning resources.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call +254769199797

Certification

Upon successful completion of this training, participants will be issued with a globally recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

- Participants must be conversant in English.
- Upon completion of training, participants will receive an Authorized Training Certificate.
- The course duration is flexible and can be modified to fit any number of days.
- Course fee includes facilitation, training materials, 2 coffee breaks, buffet lunch, and a Certificate upon successful completion.
- One-year post-training support, consultation, and coaching provided after the course.
- Payment should be made at least a week before the training commencement to Fineskill Training Center account, as indicated in the invoice, to enable better preparation.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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