



CONSTRUCTION ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT TRAINING COURSE

14 - 18 DEC 2026

KUALA LUMPUR

5200 € (PER PERSON)

REF: #CON8677_86685



COURSE INTRODUCTION / OVERVIEW:

This course provides a comprehensive framework for understanding and implementing Environmental Impact Assessment (EIA) and management systems specifically within the dynamic construction industry. In an era of heightened environmental awareness and stringent regulatory frameworks, the ability to proactively manage a project's environmental footprint is no longer optional but a critical component of successful project delivery. This program, offered by BIG BEN Training Center, is designed to equip professionals with the practical skills needed to navigate the entire EIA process, from initial screening and scoping to the development and execution of robust Environmental Management Plans (EMPs). Drawing on established principles outlined by leading academics like Larry Canter in his seminal work "Environmental Impact Assessment," the course delves into real-world applications. Participants will learn to identify potential impacts, devise effective mitigation strategies, and ensure ongoing compliance, thereby minimizing risks, avoiding costly delays, and enhancing project sustainability. The curriculum bridges the gap between theoretical knowledge and on-the-ground challenges, preparing attendees to lead environmental stewardship efforts and contribute to the development of more resilient and responsible infrastructure.

TARGET AUDIENCE / THIS TRAINING COURSE IS SUITABLE FOR:

- Project Managers and Directors.
- Construction Site Managers and Supervisors.
- Environmental Engineers and Consultants.
- Health, Safety, and Environment (HSE) Officers.
- Civil Engineers and Architects.
- Urban Planners and Developers.
- Regulatory Compliance and Permitting Specialists.
- Government Officials in environmental and planning agencies.
- Sustainability and Corporate Social Responsibility (CSR) Managers.

TARGET SECTORS AND INDUSTRIES:

- Construction and Real Estate Development.
- Infrastructure Projects (Roads, Railways, Airports, and Ports).
- Energy and Utilities (Power Plants, Pipelines, and Renewable Energy).
- Urban and Regional Planning.
- Mining and Natural Resource Extraction.

- Waste Management and Environmental Services.
- Governmental and Public Sector Agencies.



TARGET ORGANIZATIONS DEPARTMENTS

- Project Management Office (PMO).
- Engineering and Design.
- Health, Safety, and Environment (HSE).
- Operations and Site Management.
- Planning and Development.
- Legal and Regulatory Compliance.
- Sustainability and Corporate Affairs.
- Procurement and Contracts.

COURSE OFFERINGS:

By the end of this course, the participants will have able to:

- Master the principles and legal frameworks governing Environmental Impact Assessment.
- Conduct a systematic EIA process for various construction projects.
- Develop, implement, and monitor a site-specific Environmental Management Plan (EMP).
- Identify, assess, and mitigate adverse environmental impacts related to construction activities.
- Ensure project compliance with national and international environmental standards and regulations.
- Implement effective strategies for waste, water, air, and noise pollution management.
- Integrate sustainable construction practices and green building principles into project lifecycles.
- Engage effectively with stakeholders, communities, and regulatory bodies on environmental matters.
- Conduct environmental audits and prepare comprehensive compliance reports.

COURSE METHODOLOGY:

The training methodology at BIG BEN Training Center is designed to foster a highly interactive and practical learning environment. This course moves beyond traditional lectures to immerse participants in a hands-on experience that mirrors the challenges faced in the construction industry. The program is built upon a foundation of expert-led instruction, where complex concepts of environmental impact assessment and management are broken down into understandable and applicable modules. A significant portion of the course is dedicated to case study analysis, where attendees will dissect real-world construction projects to understand their environmental successes and failures. Collaborative group workshops will challenge participants to work in teams to develop Environmental Management Plans (EMPs), conduct risk assessments, and devise mitigation strategies for hypothetical scenarios. Interactive sessions, Q&A panels, and peer-to-peer discussions are integrated throughout the five days to encourage knowledge sharing and problem-solving. This blended approach ensures that participants not only grasp the theoretical principles but also develop the confidence and competence to apply them directly to their professional roles upon returning to the workplace.

COURSE AGENDA (COURSE UNITS):

UNIT ONE: FUNDAMENTALS OF ENVIRONMENTAL MANAGEMENT IN CONSTRUCTION

- Introduction to Environmental Impact Assessment (EIA) principles.
- The legal and regulatory framework for environmental protection in construction.
- The role of EIA within the project management lifecycle.
- Key environmental challenges in the construction industry.
- Understanding environmental management systems (EMS) like ISO 14001.
- The business case for proactive environmental management.
- Roles and responsibilities of project stakeholders in environmental compliance.



UNIT TWO: THE ENVIRONMENTAL IMPACT ASSESSMENT (EIA) PROCESS

- Step-by-step guide to the EIA process from screening to approval.
- Scoping the assessment and identifying key environmental issues.
- Techniques for establishing environmental baselines.
- Methods for predicting and evaluating environmental impacts.
- Assessing impacts on air quality, water resources, and soil.
- Analyzing noise, vibration, and biodiversity impacts.
- Public participation and stakeholder consultation strategies.

UNIT THREE: DEVELOPING AND IMPLEMENTING THE ENVIRONMENTAL MANAGEMENT PLAN (EMP)

- The structure and components of a comprehensive EMP.
- Defining environmental objectives, targets, and performance indicators.
- The mitigation hierarchy (avoid, minimize, restore, offset).
- Developing control measures for erosion and sediment.
- Strategies for construction and demolition waste management.
- Implementing pollution prevention and control plans.
- Creating an effective environmental monitoring program.

UNIT FOUR: ON-SITE ENVIRONMENTAL CONTROL AND COMPLIANCE

- Practical implementation of the EMP on a construction site.
- Conducting environmental inspections and site audits.
- Techniques for monitoring air, water, and noise pollution.
- Emergency preparedness and environmental incident response procedures.
- Managing environmental performance of subcontractors and suppliers.
- Documentation, record-keeping, and environmental reporting.
- Navigating interactions with regulatory enforcement agencies.

UNIT FIVE: ADVANCED TOPICS IN SUSTAINABLE CONSTRUCTION

- Introduction to Strategic Environmental Assessment (SEA) for plans and programs.

- Conducting Social Impact Assessments (SIA) and community engagement.
- Integrating biodiversity conservation into project design.
- Principles of green building and sustainable materials.
- The role of the circular economy in construction.
- Climate change adaptation and resilience in infrastructure projects.
- Future trends and innovations in environmental management for construction.



FAQ:

QUALIFICATIONS REQUIRED FOR REGISTERING TO THIS COURSE?

There are no requirements.

HOW LONG IS EACH DAILY SESSION, AND WHAT IS THE TOTAL NUMBER OF TRAINING HOURS FOR THE COURSE?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

SOMETHING TO THINK ABOUT:

Beyond regulatory compliance, how can proactive environmental management during construction create long-term value and competitive advantage for a development company?

WHAT UNIQUE QUALITIES DOES THIS COURSE OFFER COMPARED TO OTHER COURSES?

This course distinguishes itself by focusing intensely on the practical application of environmental management principles within the specific context of the construction industry. While many programs cover the theoretical aspects of Environmental Impact Assessment, this training is meticulously structured to bridge the gap between theory and on-site reality. It emphasizes a risk-based approach, teaching participants not just how to follow a checklist but how to think critically, anticipate environmental challenges, and make informed decisions that protect both the environment and the project's bottom line. The curriculum is enriched with case studies drawn directly from complex construction and infrastructure projects, providing invaluable insights into real-world problem-solving. Furthermore, the course goes beyond mere compliance, dedicating significant time to advanced topics such as the circular economy, sustainable materials, and climate resilience, equipping professionals with the forward-thinking skills needed to lead in an evolving industry. The interactive methodology ensures that participants leave with tangible skills in developing EMPs, conducting audits, and engaging stakeholders, making them immediate assets to their organizations.