Advanced Carbon Footprint Management and Reporting Training Course



21 - 25 Dec 2026

Düsseldorf

5900 € (Per Person)

Ref: #ENV5601_100650

Course Introduction / Overview:

This comprehensive training course provides a deep dive into the critical field of carbon footprint management and reporting, an essential component of modern corporate strategy and sustainability. In an era of increasing climate scrutiny, understanding and managing greenhouse gas (GHG) emissions is no longer optional but a fundamental aspect of risk management, operational efficiency, and brand reputation. This program, offered by BIG BEN Training Center, is designed to equip professionals with the advanced skills needed to accurately measure, manage, and report their organization's carbon footprint. Drawing on established frameworks like the GHG Protocol and insights from leading thinkers such as Mike Berners-Lee, author of "How Bad Are Bananas? The Carbon Footprint of Everything", the course moves beyond basic accounting. Participants will explore the complexities of Scope 1, 2, and 3 emissions, learn to navigate international reporting standards, and develop robust decarbonization strategies. This training provides a holistic A to Z journey, transforming complex climate data into actionable business intelligence and a tangible competitive advantage, ensuring your organization is prepared for the transition to a low-carbon economy.

Target Audience / This training course is suitable for:

- Sustainability Managers and Professionals.
- Environmental, Health, and Safety (EHS) Officers.
- Corporate Social Responsibility (CSR) Managers.
- Operations and Facility Managers.
- Supply Chain and Procurement Specialists.
- Financial Analysts and Investment Managers focusing on ESG.
- Regulatory Compliance Officers.
- Management Consultants specializing in sustainability.
- Product Development and R&D Professionals.
- Senior Executives and Strategic Planners.

Target Sectors and Industries:

- Manufacturing and Industrial Production.
- Energy, Oil, and Gas Sector.
- Transportation and Logistics.
- Construction and Real Estate.
- Agriculture and Food Production.
- Information Technology and Data Centers.
- Financial Services and Banking.
- Retail and Consumer Goods.
- Pharmaceuticals and Healthcare.
- Governmental agencies and public sector bodies.

Target Organizations Departments:

- Sustainability and Corporate Responsibility Department.
- Environmental, Health, and Safety (EHS) Department.
- Operations and Production.
- Finance and Accounting.
- Supply Chain and Logistics Management.
- Strategic Planning and Business Development.
- Risk Management and Compliance.
- Investor Relations.
- Research and Development (R&D).
- Facilities Management.

Course Offerings:

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

- Master the principles of the GHG Protocol for accurate carbon accounting.
- Differentiate and calculate Scope 1, 2, and the more complex Scope 3 emissions.
- Develop a comprehensive greenhouse gas inventory for their organization.
- Analyze and interpret carbon data to identify key emission sources and reduction opportunities.
- Navigate major reporting frameworks such as CDP, GRI, and TCFD.
- Formulate effective decarbonization strategies and set science-based targets.
- Evaluate carbon offsetting projects and renewable energy integration.
- Communicate sustainability performance effectively to stakeholders.
- Conduct a basic Life Cycle Assessment (LCA) for products and services.
- Align carbon management initiatives with broader business objectives and ESG goals.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, practical, and highly interactive, ensuring participants can immediately apply their learning. We move beyond traditional lectures to create a dynamic learning environment that fosters deep understanding and skill development. The course is built upon a foundation of real-world case studies from various industries, allowing participants to analyze successful carbon management strategies and learn from the challenges others have faced. A significant portion of the training is dedicated to hands-on workshops and group exercises where participants will practice carbon footprint calculation, data analysis, and strategy development. These collaborative sessions encourage peer-to-peer learning and the exchange of diverse perspectives. Our expert instructors facilitate engaging discussions, Q&A sessions, and provide personalized feedback to guide participants through complex topics. The methodology emphasizes a problem-solving approach, equipping attendees not just with knowledge of standards and frameworks, but with the critical thinking skills required to build and lead effective carbon reduction programs within their own organizations.

Course Agenda (Course Units):

Unit One Foundations of Carbon Footprint Management

- Introduction to Climate Change and Corporate Responsibility.
- Understanding Greenhouse Gases (GHGs) and Global Warming Potential (GWP).
- The Business Case for Carbon Management: Risks and Opportunities.
- Overview of Key International Agreements and Regulations.
- Introduction to the GHG Protocol Corporate Standard.
- Defining Operational and Organizational Boundaries.
- Differentiating Scope 1, Scope 2, and Scope 3 Emissions.

Unit Two Measuring and Calculating GHG Emissions

- Deep Dive into Scope 1: Direct Emissions from Owned or Controlled Sources.
- Methodologies for Calculating Scope 2: Indirect Emissions from Purchased Electricity.
- Introduction to Data Collection Strategies and Activity Data Management.
- Using Emission Factors: Sources, Selection, and Application.
- Practical Workshop: Calculating Scope 1 and 2 Emissions.
- Introduction to Carbon Accounting Software and Tools.
- Ensuring Data Quality, Accuracy, and Completeness.

Unit Three Mastering Scope 3 and Value Chain Emissions

- The Challenge and Importance of Scope 3 Emissions.
- Exploring the 15 Categories of Scope 3 Emissions.
- Prioritizing Scope 3 Categories for Your Organization.
- Data Collection Methods for Upstream and Downstream Activities.
- Engaging Suppliers for Better Data and Collaboration.
- Calculating Emissions from Business Travel and Employee Commuting.
- Workshop: Developing a Scope 3 Inventory Strategy.

Unit Four Carbon Reporting and Disclosure Frameworks

- Introduction to Corporate Sustainability Reporting.
- Navigating the Carbon Disclosure Project (CDP) Questionnaire.
- Reporting with the Global Reporting Initiative (GRI) Standards.
- Understanding the Task Force on Climate-related Financial Disclosures (TCFD).
- The Role of ISO 14064 in GHG Quantification and Reporting.
- Preparing a GHG Inventory Report.
- The Process of Third-Party Verification and Assurance.

Unit Five Strategy, Reduction, and Future Trends

- Setting Meaningful Reduction Targets: Science-Based Targets (SBTi).
- Developing a Decarbonization Roadmap and Action Plan.
- Strategies for Energy Efficiency and Renewable Energy Sourcing.
- Evaluating Carbon Offsetting and Carbon Credit Markets.
- Introduction to Life Cycle Assessment (LCA) for Products.
- The Concept of Carbon Neutrality and Net-Zero.
- Future Outlook: Evolving Regulations and Stakeholder Expectations.

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 and reporting, how can a deep understanding of a company's carbon footprint become a primary driver for strategic innovation and competitive advantage?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by moving beyond mere compliance and calculation to focus on the strategic integration of carbon management into core business operations. While many programs cover the "what" and "how" of carbon accounting, our curriculum is uniquely designed to address the "why" and "so what", empowering participants to become strategic leaders. We place a significant emphasis on the most challenging and impactful area: Scope 3 value chain emissions. The training provides practical methodologies and collaborative strategies for engaging with suppliers and customers to gather reliable data and drive collective action. Furthermore, the course content is forward-looking, preparing participants not just for current reporting standards but for future trends in decarbonization, net-zero commitments, and the increasing demands of investors for robust climate-related financial disclosures. The learning experience is built on interactive case studies and simulation exercises, ensuring that participants leave not with theoretical knowledge, but with the confidence and practical skills to develop and implement a comprehensive, data-driven carbon reduction strategy that creates lasting value for their organization.