Advanced Carbon Accounting and GHG Protocol Compliance Training Course

21 - 25 Dec 2026

Tokyo

5800 € (Per Person)

Ref: #SUS5032_141513

Course Introduction / Overview:

In an era defined by climate action and stringent regulatory frameworks, mastering carbon accounting is no longer optional but a critical business imperative. This course provides a comprehensive A-to-Z guide to Greenhouse Gas (GHG) accounting, grounded in the globally recognized GHG Protocol Corporate Accounting and Reporting Standard. Participants will move beyond basic compliance to develop a strategic understanding of how to measure, manage, and report emissions effectively. We delve into the foundational principles articulated by leading academics like Jan Bebbington, a pioneer in social and environmental accounting, exploring how transparent reporting builds stakeholder trust and drives sustainable value. This program, offered by BIG BEN Training Center, is meticulously designed to equip professionals with the practical skills needed to navigate the complexities of Scope 1, 2, and the notoriously challenging Scope 3 emissions. By integrating theoretical knowledge with practical application, this course empowers you to build a robust GHG inventory, support corporate decarbonization goals, and confidently lead your organization's transition to a low-carbon economy.

Target Audience / This training course is suitable for:

- Sustainability Managers and ESG Specialists.
- Environmental, Health, and Safety (EHS) Professionals.
- Financial Controllers and Accountants.
- Corporate Social Responsibility (CSR) Managers.
- Operations and Facilities Managers.
- Supply Chain and Procurement Professionals.
- Internal and External Auditors.
- Risk and Compliance Officers.
- Investment Analysts and Portfolio Managers.
- Corporate Strategy and Policy Advisors.

Target Sectors and Industries:

- Manufacturing and Industrial Production.
- Energy, Oil, Gas, and Utilities.
- Transportation, Logistics, and Aviation.
- Construction and Real Estate Development.
- Agriculture, Forestry, and Food Production.
- Information and Communication Technology (ICT).
- Financial Services and Investment Banking.
- Retail and Consumer Goods.
- Governmental bodies and Public Sector Agencies.
- Consulting and Professional Services.

Target Organizations Departments:

- Sustainability and Corporate Responsibility.
- Finance and Accounting.
- Environmental Compliance.
- Operations and Production.
- Supply Chain Management and Procurement.
- Legal and Regulatory Affairs.
- Risk Management.
- Investor Relations.
- Strategic Planning.
- Internal Audit.

Course Offerings:

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

- Master the core principles and requirements of the GHG Protocol Corporate Standard.
- Accurately define operational and organizational boundaries for GHG inventories.
- Calculate Scope 1 direct emissions from owned or controlled sources.
- Quantify Scope 2 indirect emissions from purchased energy.
- Develop robust methodologies for measuring and estimating complex Scope 3 value chain emissions.
- Implement effective data collection, management, and quality control systems.
- Prepare a transparent and credible GHG emissions report for internal and external stakeholders.
- Align carbon reporting with emerging international standards like ISSB.
- Evaluate emission reduction opportunities and contribute to decarbonization strategies.
- Prepare for and navigate the process of third-party verification and assurance.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to foster deep learning and practical skill acquisition through a highly interactive and participatory approach. This course moves beyond traditional lectures to immerse participants in a dynamic learning environment. We utilize a blend of expert-led instruction, real-world case studies of corporate GHG reports, and hands-on calculation workshops. Participants will work in collaborative groups to solve practical problems, such as defining reporting boundaries for a complex organization and estimating Scope 3 emissions from supplied goods. Interactive sessions, facilitated discussions, and peer-to-peer learning are central to our approach, allowing for the exchange of diverse perspectives and experiences. Our instructors provide continuous feedback and guidance, ensuring that theoretical concepts are firmly linked to practical application. The curriculum is structured to build confidence, enabling participants to return to their organizations ready to implement a robust and compliant carbon accounting framework immediately.

Course Agenda (Course Units):

Unit One: Foundations of GHG Accounting and the Regulatory Landscape

- Introduction to climate change science and its business implications.
- History and structure of the GHG Protocol.
- Key principles of GHG accounting: relevance, completeness, consistency, transparency, and accuracy.
- Understanding the global and regional regulatory context for emissions reporting.
- Defining organizational and operational boundaries (equity share, financial control, operational control).
- Introduction to Scope 1, 2, and 3 emissions categories.
- The business case for comprehensive carbon accounting.

Unit Two: Calculating Scope 1 and Scope 2 Emissions

- Identifying Scope 1 emission sources: stationary combustion, mobile combustion, and fugitive emissions.
- Selecting appropriate emission factors and calculation methodologies.
- Practical workshop on calculating emissions from company-owned vehicles and facilities.
- Understanding Scope 2 emissions from purchased electricity, steam, heat, and cooling.
- Applying the market-based and location-based methods for Scope 2 accounting.
- Data collection strategies for fuel consumption and electricity usage.
- Managing data quality and addressing uncertainty in Scope 1 and 2 inventories.

Unit Three: Mastering Scope 3 Value Chain Emissions

- An overview of the 15 categories of Scope 3 emissions.
- Prioritizing Scope 3 categories for reporting based on relevance and impact.
- Methodologies for calculating upstream emissions (e.g., purchased goods, capital goods, transportation).
- Methodologies for calculating downstream emissions (e.g., use of sold products, end-of-life treatment).
- Strategies for engaging suppliers and collecting primary data.
- Using secondary data and industry-average emission factors for estimation.
- Practical exercise in mapping a company's value chain and identifying key Scope 3 hotspots.

Unit Four: GHG Data Management, Reporting, and Verification

- Developing a GHG Inventory Management Plan.
- Establishing robust systems for data collection, aggregation, and storage.
- Implementing internal controls and quality assurance procedures.
- Structuring a transparent and compliant public GHG report.
- Aligning GHG reporting with frameworks like CDP, TCFD, and the new ISSB standards.
- The role and process of third-party verification and assurance.
- Preparing your data and documentation for a successful audit.

Unit Five: Strategic Carbon Management and Decarbonization

- Using GHG inventory results to identify emission reduction opportunities.
- Setting meaningful emission reduction targets, including Science-Based Targets (SBTs).
- Exploring decarbonization levers: energy efficiency, renewable energy procurement, and process innovation.
- The role of carbon offsetting and carbon credits in a climate strategy.
- Integrating carbon management into corporate strategy and financial planning.
- Communicating climate performance to investors, customers, and other stakeholders.
- Future trends in carbon accounting and corporate climate action.

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:

As organizations move beyond simple reporting, how can carbon accounting be transformed from a compliance exercise into a strategic driver for innovation and competitive advantage?

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

This course distinguishes itself by moving beyond the mechanics of calculation to embed carbon accounting within a strategic business context. While many programs focus solely on compliance with the GHG Protocol, our curriculum emphasizes how to leverage emissions data to drive operational efficiency, mitigate risk, and uncover new value creation opportunities. A significant differentiator is our in-depth, practical exploration of Scope 3 emissions, which constitute the largest portion of most companies' carbon footprints and are the most challenging to measure. We provide participants with robust methodologies and data estimation techniques to tackle this complexity confidently. Furthermore, the course is forward-looking, integrating discussions on emerging standards from the ISSB and the strategic imperatives of setting Science-Based Targets and developing credible net-zero roadmaps. Rather than just teaching the "what," we focus on the "so what," enabling participants to translate their GHG inventory into an actionable strategy that enhances corporate resilience and competitive positioning in a low-carbon economy.