Green Logistics and Carbon Footprint Reduction Training Course



08 - 12 Nov 2026

Dubai

4800 € (Per Person)

Ref: #LOG1093_207386

Course Introduction / Overview:

This comprehensive training course provides a deep dive into the critical principles of sustainable logistics and effective carbon footprint management. In an era where environmental responsibility is paramount, mastering green logistics is no longer optional but a strategic imperative for business resilience and market leadership. This program is designed to equip professionals with the knowledge and tools to transform their supply chain operations into models of efficiency and sustainability. We will explore the entire logistics lifecycle, from sustainable procurement and transportation to eco-friendly warehousing and reverse logistics. The curriculum is informed by leading academic research, including the foundational work of Professor Alan McKinnon, a renowned expert in the field, and concepts discussed in his influential book, "Green Logistics: Improving the Environmental Sustainability of Logistics". Participants will learn not just the 'why' but the 'how' of reducing environmental impact, focusing on practical methodologies for calculating, monitoring, and mitigating carbon emissions. BIG BEN Training Center is proud to offer this forward-thinking course that bridges the gap between theoretical knowledge and actionable strategies, empowering organizations to achieve their environmental, social, and governance (ESG) goals while enhancing operational performance and profitability.

Target Audience / This training course is suitable for:

- Logistics and Supply Chain Managers.
- Sustainability Officers and ESG Specialists.
- Operations and Warehouse Managers.
- Procurement and Sourcing Professionals.
- Fleet and Transportation Managers.
- Environmental Consultants and Auditors.
- Corporate Social Responsibility (CSR) Managers.
- Product and Packaging Designers.
- Regulatory and Compliance Officers.
- Business Owners and Senior Executives.

Target Sectors and Industries:

- Manufacturing and Industrial Production.
- Retail and E-commerce.
- Third-Party Logistics (3PL) and Fourth-Party Logistics (4PL) Providers.
- Transportation, Freight, and Shipping Companies.
- Food and Beverage Distribution.
- Pharmaceutical and Healthcare Supply Chains.
- Automotive Industry.
- Construction and Building Materials.
- Governmental bodies, public sector agencies, and non-governmental organizations.
- Waste Management and Recycling Sector.

Target Organizations Departments:

- Supply Chain Management.
- Logistics and Distribution.
- Procurement and Purchasing.
- Operations Management.
- Sustainability and Environmental, Social, and Governance (ESG).
- Fleet Management.
- Warehousing and Inventory Control.
- Corporate Social Responsibility (CSR).
- Compliance and Regulatory Affairs.
- Strategic Planning.

Course Offerings:

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

- Develop a comprehensive green logistics strategy aligned with corporate sustainability goals.
- Accurately measure and analyze the carbon footprint of supply chain activities.
- Implement practical strategies for reducing emissions in transportation and fleet management.
- Apply principles of eco-friendly warehousing, including energy efficiency and waste reduction.
- Evaluate and select sustainable packaging solutions to minimize environmental impact.
- Master the concepts of reverse logistics and the circular economy within supply chain operations.
- Navigate the evolving landscape of environmental regulations and reporting standards.
- Utilize data and analytics to monitor sustainability performance and drive continuous improvement.
- Communicate the business case for green logistics to internal and external stakeholders.
- Identify opportunities for cost savings through sustainable practices.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, engaging, and practical, ensuring that participants can immediately apply their learning in a real-world context. This course moves beyond traditional lectures to foster a dynamic learning environment. We utilize a blend of expert-led presentations, in-depth case study analyses of leading sustainable companies, and collaborative group workshops. Participants will engage in hands-on exercises, such as mock carbon footprint calculations and developing a sustainable logistics improvement plan for a hypothetical company. Interactive sessions, Q&A panels, and peer-to-peer discussions are integral to the program, encouraging the sharing of diverse experiences and challenges. The course emphasizes problem-solving and strategic thinking, equipping attendees with the skills to diagnose inefficiencies in their own operations and design effective, sustainable solutions. Our experienced instructors provide continuous feedback and facilitate a supportive atmosphere where complex concepts are made accessible and actionable for professionals at all levels. This immersive approach guarantees a comprehensive understanding of green logistics principles and the confidence to implement them effectively.

Course Agenda (Course Units):

Unit One: Foundations of Sustainable Supply Chain Management

- Introduction to Green Logistics and its Strategic Importance.
- The Triple Bottom Line: People, Planet, and Profit.
- Global Sustainability Goals and their Impact on Logistics.
- The Regulatory Landscape: Compliance and Environmental Policies.
- The Business Case for Green Supply Chain Management (GSCM).
- Key Performance Indicators (KPIs) for Sustainable Logistics.
- Stakeholder Engagement and Communication in Sustainability Initiatives.

Unit Two: Carbon Footprint Accounting and Analysis

- Understanding Greenhouse Gas (GHG) Emissions.
- Introduction to the GHG Protocol: Scope 1, 2, and 3 Emissions.
- Methodologies for Calculating a Logistics Carbon Footprint.
- Data Collection Techniques for Transportation and Warehousing.
- Life Cycle Assessment (LCA) of Products and Services.
- Carbon Accounting Software and Tools Overview.
- Setting Science-Based Targets for Emission Reduction.

Unit Three: Sustainable Transportation and Fleet Optimization

- Optimizing Route and Load Planning for Fuel Efficiency.
- Alternative Fuels and Powertrains: Electric, Hydrogen, and Biofuels.
- Strategies for Reducing Empty Miles and Improving Vehicle Utilization.
- The Role of Intermodal and Multimodal Transportation.
- Implementing a Green Fleet Management Policy.
- Telematics and Technology for Monitoring Driver Behavior and Fuel Consumption.
- Last-Mile Delivery Innovations and Sustainability Challenges.

Unit Four: Eco-Friendly Warehousing, Packaging, and Reverse Logistics

- Principles of Green Warehouse Design and Construction.
- Energy Efficiency in Warehouse Operations: Lighting, HVAC, and Automation.
- Waste Reduction, Recycling, and Management Programs.
- Sustainable Packaging: Materials, Design, and Minimization.
- Introduction to the Circular Economy Concept.
- Designing and Managing Effective Reverse Logistics Systems.
- Handling Product Returns, Refurbishment, and End-of-Life Disposal.

Unit Five: Strategy, Implementation, and Future Trends

- Developing and Implementing a Green Logistics Roadmap.
- Change Management for a Successful Sustainability Transition.
- Supplier Collaboration and Sustainable Procurement Practices.
- Sustainability Reporting Frameworks (GRI, SASB).
- The Role of Carbon Offsetting and In setting.
- Emerging Technologies: AI, IoT, and Blockchain in Green Logistics.
- Future Outlook and Innovations in Sustainable Supply Chains.

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 global supply chains become increasingly complex and fragmented, how can organizations effectively measure and manage Scope 3 emissions from partners they do not directly control, and is full supply chain decarbonization truly achievable without universal collaboration?

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

This course distinguishes itself by offering a holistic and strategically integrated approach to green logistics, moving far beyond a simple checklist of eco-friendly tactics. While many programs focus narrowly on specific areas like transportation or packaging, our curriculum provides a comprehensive, end-to-end view of the sustainable supply chain. We emphasize the critical link between operational practices and high-level business strategy, ensuring participants understand how to build a robust business case for sustainability that resonates with executive leadership. A key differentiator is our focus on practical, data-driven decision-making, with dedicated modules on carbon accounting methodologies and the use of KPIs to measure and report on progress. The course is built on real-world applicability, using contemporary case studies and hands-on workshops that challenge participants to solve complex problems. Rather than just presenting theoretical models, we equip professionals with the skills to develop a tangible roadmap for implementation within their own organizations, addressing the practical challenges of change management and stakeholder engagement. This blend of strategic insight, analytical rigor, and practical application makes it an unparalleled learning experience for professionals serious about leading the green transformation in logistics.