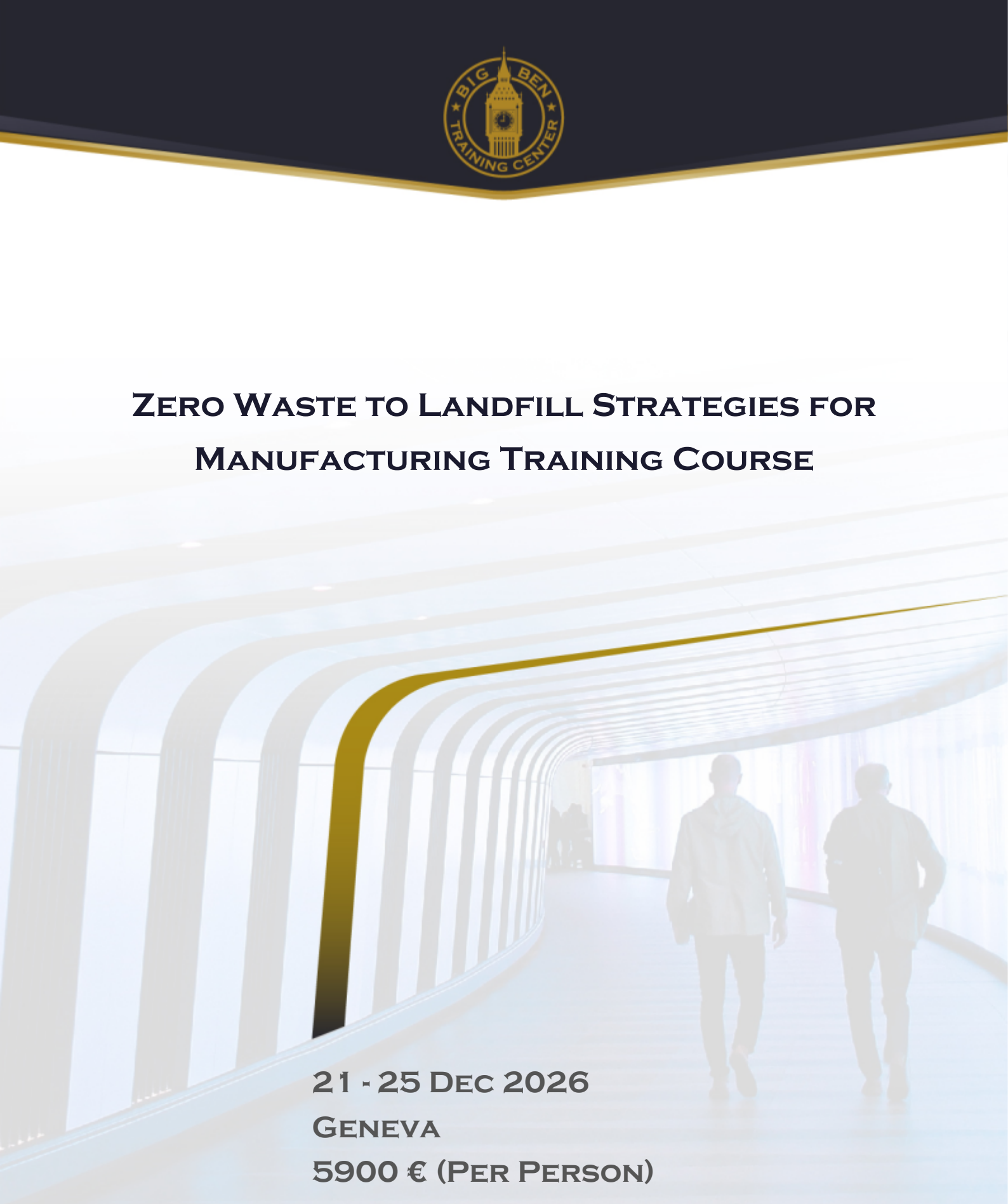
Zero Waste to Landfill Strategies for Manufacturing Training Course



21 - 25 Dec 2026

Geneva

5900 € (Per Person)

Ref: #SUS2448_143274

Course Introduction / Overview:

The global shift towards sustainability has transformed the manufacturing landscape, making the goal of Zero Waste to Landfill (ZWTL) a critical strategic objective for forward-thinking organizations. This intensive training course is designed to equip professionals with the knowledge and tools to spearhead this transformation within their operations. Moving beyond basic recycling, the program delves into a holistic framework for waste elimination, resource optimization, and the creation of circular value streams. Drawing upon foundational concepts from industrial ecology, as explored by experts like William McDonough and Michael Braungart in their seminal work "Cradle to Cradle: Remaking the Way We Make Things," this course provides a practical roadmap for implementation. Participants will learn to view waste not as a byproduct but as a resource inefficiency, unlocking significant cost savings, enhancing operational efficiency, and strengthening corporate reputation. BIG BEN Training Center has developed this curriculum to bridge the gap between theoretical knowledge and practical application, ensuring that attendees can develop and execute effective ZWTL strategies that deliver measurable environmental and financial benefits, securing a competitive advantage in an increasingly eco-conscious market.

Target Audience / This training course is suitable for:

- Environmental Managers and Specialists.
- Operations and Plant Managers.
- Sustainability Officers and CSR Managers.
- Supply Chain and Logistics Professionals.
- Quality Assurance and Control Managers.
- Production Supervisors and Team Leaders.
- Facilities and Maintenance Managers.
- Corporate Strategy and Business Development Executives.
- Product Design and R&D Engineers.
- Compliance and Regulatory Affairs Officers.

Target Sectors and Industries:

- Automotive and Aerospace Manufacturing.
- Electronics and Technology Production.
- Food and Beverage Processing.
- Pharmaceutical and Chemical Manufacturing.
- Textiles and Apparel Industry.
- Consumer Goods and Packaging.
- Construction and Building Materials.
- Plastics and Polymers Industry.
- Governmental bodies and environmental regulatory agencies.
- Heavy Machinery and Industrial Equipment.

Target Organizations Departments:

- Operations and Production.
- Environmental, Health, and Safety (EHS).
- Sustainability and Corporate Social Responsibility (CSR).
- Supply Chain and Procurement.
- Quality Management and Assurance.
- Research and Development (R&D).
- Facilities Management.
- Finance and Accounting.
- Logistics and Warehousing.

Course Offerings:

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

- Develop a comprehensive business case for implementing a Zero Waste to Landfill program.
- Conduct a thorough waste audit to identify, quantify, and characterize all waste streams.
- Apply the waste management hierarchy to prioritize source reduction, reuse, and recycling.
- Design and implement effective waste diversion and resource recovery strategies.
- Engage suppliers and stakeholders to create a more sustainable supply chain.
- Establish key performance indicators (KPIs) to track and report on ZWTL progress.
- Navigate the regulatory landscape related to industrial waste management and compliance.
- Foster a corporate culture of sustainability and continuous environmental improvement.
- Evaluate advanced circular economy models like industrial symbiosis and product-as-a-service.
- Prepare for third-party ZWTL certifications and standards.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, practical, and highly interactive, ensuring participants can translate learned concepts into actionable strategies. We move beyond traditional lectures to foster a dynamic learning environment where theory is immediately applied to real-world manufacturing challenges. The course heavily utilizes case studies of leading companies that have successfully achieved Zero Waste to Landfill status, allowing for in-depth analysis of their strategies, challenges, and successes. Interactive workshops and group exercises form a core component, where participants will work collaboratively to conduct mock waste audits, develop waste reduction plans, and map out implementation roadmaps for hypothetical manufacturing scenarios. Expert-led discussions and peer-to-peer learning sessions encourage the sharing of experiences and best practices. Participants will receive continuous feedback and engage in problem-solving clinics, ensuring they leave with not just knowledge, but the confidence and practical skills to lead ZWTL initiatives within their own organizations. This hands-on approach guarantees a robust and impactful learning experience.

Course Agenda (Course Units):

Unit One Foundations of Zero Waste in Manufacturing

- Introduction to the Zero Waste to Landfill (ZWTL) philosophy.
- The business case for ZWTL: cost savings, risk mitigation, and brand enhancement.
- Understanding the principles of the circular economy versus the linear model.
- The waste management hierarchy: prevent, reduce, reuse, recycle, recover.
- Global trends and regulatory drivers for sustainable manufacturing.
- Key terminology and definitions in waste management.
- Identifying common barriers to ZWTL implementation and how to overcome them.

Unit Two Strategic Waste Auditing and Stream Analysis

- Planning and executing a comprehensive industrial waste audit.
- Techniques for data collection, sorting, and characterization of waste streams.
- Identifying the root causes of waste generation in manufacturing processes.
- Utilizing process mapping to pinpoint waste hotspots.
- Calculating baseline metrics for waste generation and diversion rates.
- Introduction to waste management software and tracking tools.
- Presenting audit findings to management for strategic buy-in.

Unit Three Core Strategies for Waste Reduction and Diversion

- Source reduction and lean manufacturing principles (Kaizen, 5S).
- Implementing robust programs for recycling, composting, and material reuse.
- Strategies for managing difficult-to-recycle materials.
- Engaging with suppliers for sustainable packaging and raw material optimization.
- Exploring waste-to-energy and other recovery technologies.
- Hazardous waste management and minimization techniques.
- Employee engagement and training programs for waste segregation.

Unit Four Implementing and Managing a ZWTL Program

- Developing a strategic ZWTL implementation roadmap with clear timelines.
- Setting realistic goals, targets, and Key Performance Indicators (KPIs).
- Building a cross-functional green team to champion the initiative.
- Effective communication strategies for internal and external stakeholders.
- Vendor selection and management for waste and recycling services.
- Monitoring, measuring, and reporting on program performance.
- Introduction to ZWTL certification standards and processes.

Unit Five Advanced Concepts and Continuous Improvement

- Introduction to Life Cycle Assessment (LCA) for products and processes.
- Exploring industrial symbiosis and byproduct synergy opportunities.
- Designing for the environment (DfE): creating products for disassembly and reuse.
- Integrating ZWTL goals into the corporate Environmental Management System (EMS) like ISO 14001.
- Leveraging ZWTL achievements in corporate sustainability reporting.
- Future trends in resource recovery and circular manufacturing.
- Developing a culture of continuous improvement for long-term success.

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 cost savings and compliance, how can a robust Zero Waste to Landfill strategy fundamentally reshape a manufacturing company's brand identity and market position?

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

This course distinguishes itself by focusing on the strategic integration of Zero Waste to Landfill principles into the core business model, rather than treating it as a peripheral environmental initiative. While other programs may concentrate on the tactical aspects of waste sorting and recycling, our curriculum emphasizes the development of a comprehensive business case, linking ZWTL directly to operational efficiency, risk management, and long-term profitability. We move beyond the "how" of waste management to explore the "why," empowering participants to become strategic leaders who can champion sustainability from the boardroom to the factory floor. The curriculum is built upon a foundation of industrial ecology and circular economy principles, providing a systemic view of resource flows. Through rigorous case studies and interactive workshops, the course provides a practical, implementation-focused experience. It is designed not just to inform but to transform, equipping attendees with the leadership skills and strategic frameworks needed to drive meaningful change and secure a sustainable competitive advantage in the global marketplace.