Sustainable Supply Chain and Circular Economy Practices

Amsterdam (Netherlands)

12 - 16 April 2027

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Introduction

Organizations today face increasing pressure to balance operational efficiency with environmental and social accountability. Within this context, Sustainable Supply Chain and Circular Economy Practices have emerged as essential frameworks for driving competitive advantage and long-term value creation.

This course offers participants a comprehensive understanding of how to design, manage, and optimize sustainable supply chains by integrating circular economy principles.

It equips professionals with analytical tools and strategic approaches to minimize waste, maximize resource utilization, and embed sustainability into every stage of the value chain from sourcing and production to distribution and end-of-life management.

Course Objectives

- Understand the core principles of sustainable supply chain management and circular economy frameworks.
- Analyze supply chain components to identify sustainability improvement opportunities.
- Apply circular strategies in product design, manufacturing, logistics, and distribution.
- Develop skills to plan and manage resources efficiently through sustainable operations.
- Measure environmental and social performance using relevant indicators.
- Assess operational and environmental risks and design mitigation strategies.
- Develop business models that foster innovation and reduce carbon footprints.
- Use analytical tools to evaluate the balance between efficiency and sustainability.

Course Outlines

Day 1: Fundamentals of Sustainable Supply Chains

- Overview of sustainability concepts and their importance in supply chain operations.
- Understanding the link between institutional performance and operational sustainability.
- Examining each stage of the supply chain from a sustainability perspective.
- Reviewing international frameworks and standards for sustainable supply chains.
- Identifying key environmental and social performance indicators.
- Case studies of organizations implementing sustainable supply chain models.

Day 2: Performance Analysis and Evaluation

- Defining quantitative and qualitative metrics for sustainable performance measurement.
- Applying life-cycle assessment LCA to evaluate environmental impacts.
- Analyzing material and energy flows across logistics networks.
- Designing key performance indicators KPIs for resource efficiency.
- Identifying critical supply chain points and proposing sustainable solutions.

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- Practical exercises on performance evaluation using real-world datasets.

Day 3: Circular Economy Practices in Supply Chains

- Introduction to the circular economy and its guiding principles.
- Applying strategies of reuse, remanufacturing, recycling, and waste minimization.
- Developing product and process redesign models to close the loop.
- Exploring the interdependence between circularity and operational sustainability.
- Evaluating the role of suppliers and customers in supporting circular systems.
- Case studies showcasing successful circular supply chain transformations.

Day 4: Tools and Technologies for Sustainability

- Exploring digital tools for sustainable supply chain analysis.
- Using data analytics and big data for informed decision-making.
- Applying smart tracking systems for product lifecycle monitoring.
- Managing operational and environmental risks through analytical tools.
- Designing interactive dashboards for real-time sustainability reporting.
- Practical workshop on using digital tools for sustainable performance analysis.

Day 5: Strategy Development and Continuous Improvement

- Comprehensive review of course concepts and applied tools.
- Developing strategic roadmaps for implementing circular economy initiatives.
- Conducting gap analysis to identify improvement areas across the supply chain.
- Building evaluation frameworks for ongoing sustainability assessment.
- Discussing emerging trends in sustainable and resilient supply chain management.
- Capstone project: designing an integrated sustainable supply chain model.

Why Attend This Course? Wins & Losses!

- Gain practical knowledge on designing efficient and sustainable supply chains.
- Achieve a clear understanding of circular economy principles and real-world applications.
- Strengthen your ability to analyze environmental and social performance metrics.
- Learn to use tools for sustainability assessment and data-driven decision-making.
- Improve resource efficiency and minimize operational waste.
- Enhance risk management capabilities in environmental and logistical domains.
- Support strategic, data-informed decisions that align with global sustainability goals.
- Stay ahead of emerging global trends in sustainable operations and innovation.

Conclusion

Sustainable Supply Chain and Circular Economy Practices form the foundation of modern business resilience and responsible growth. Through this program, participants gain the analytical and strategic knowledge needed to redesign operations for greater efficiency, innovation, and sustainability.

By integrating circular models and sustainability analytics, organizations can reduce waste, optimize resource use, and strengthen competitiveness while contributing positively to society and the environment. As the global economy transitions toward greener and more circular systems, adopting sustainable supply chain practices is no

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longer optional it is a strategic necessity for ensuring long-term organizational success and environmental stewardship.

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