Advanced Lean Supply Chain and Process Improvement Training Course



21 - 25 Dec 2026

Milan

5900 € (Per Person)

Ref: #PSC6786_133782

Course Introduction / Overview:

This comprehensive training course provides a deep dive into the synergistic relationship between Lean principles and modern supply chain management. In today's volatile global market, achieving operational excellence is not just an advantage but a necessity for survival and growth. This program is meticulously designed to equip participants with the strategic knowledge and practical tools to eliminate waste, optimize processes, and build a resilient, efficient, and customer-focused supply chain. Drawing upon the foundational work of pioneers like James P. Womack and Daniel T. Jones, authors of the seminal book "Lean Thinking", the course moves beyond theoretical concepts to offer actionable strategies for implementation. Participants will learn to identify and eradicate the eight wastes (Muda) within their supply chain, from procurement to final delivery. BIG BEN Training Center has developed this curriculum to foster a culture of continuous improvement (Kaizen), enabling organizations to enhance value delivery, reduce operational costs, and significantly improve lead times. By integrating value stream mapping, JIT principles, and robust performance metrics, this course empowers professionals to transform their supply chain into a powerful competitive weapon, ensuring long-term sustainability and profitability in a complex business environment.

Target Audience / This training course is suitable for:

- Supply Chain Managers and Directors.
- Logistics and Distribution Managers.
- Operations Managers and Supervisors.
- Process Improvement Specialists and Consultants.
- Procurement and Sourcing Professionals.
- Production and Manufacturing Planners.
- Quality Assurance and Control Managers.
- Warehouse and Inventory Managers.
- Project Managers involved in operational change.
- Business Analysts focused on operational efficiency.

Target Sectors and Industries:

- Manufacturing and Industrial Production.
- Retail and Consumer Goods.
- Logistics, Transportation, and Distribution Services.
- Automotive and Aerospace.
- Pharmaceuticals and Healthcare.
- Food and Beverage Industry.
- Electronics and High-Tech.
- Government Agencies and Public Sector Operations.
- Construction and Engineering.

Target Organizations Departments:

- Supply Chain Management.
- Logistics and Distribution.
- Operations and Production.
- Procurement and Purchasing.
- Quality Assurance and Control.
- Inventory Management.
- Strategic Planning and Business Development.
- Finance and Cost Accounting.
- Customer Service and Order Fulfillment.

Course Offerings:

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

- Identify and eliminate the eight wastes (Muda) in supply chain processes.
- Apply core Lean principles to enhance supply chain velocity and efficiency.
- Conduct value stream mapping (VSM) to visualize and analyze material and information flow.
- Implement Just-in-Time (JIT) and Kanban systems to optimize inventory levels.
- Utilize 5S methodology to create a more organized and productive work environment.
- Lead Kaizen events to facilitate rapid and continuous process improvements.
- Develop and monitor key performance indicators (KPIs) for supply chain performance.
- Apply root cause analysis techniques to solve complex operational problems.
- Foster a culture of continuous improvement within their teams and organization.
- Integrate Lean strategies with supply chain technology for enhanced visibility and control.

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 the workplace. This course moves beyond traditional lectures, employing a blended learning approach that combines expert-led instruction with hands-on activities. A significant portion of the training is dedicated to real-world case studies, allowing participants to analyze complex supply chain challenges and develop effective Lean solutions. Group discussions and collaborative workshops encourage the sharing of diverse experiences and perspectives, enriching the learning environment. Participants will engage in practical exercises such as creating value stream maps, conducting simulated 5S audits, and designing Kanban systems. Interactive simulations will provide a risk-free environment to test different process improvement strategies and understand their impact on overall supply chain performance. Continuous feedback from the in

structor and peers is a core component, helping participants refine their understanding and build confidence in applying Lean tools and techniques. This immersive and participatory approach ensures a deep and lasting comprehension of Lean supply chain principles.

Course Agenda (Course Units):

Unit One: Foundations of Lean Supply Chain Management

- Introduction to Lean Thinking and its Origins.
- The Five Core Principles of Lean.
- Understanding the Modern Supply Chain and its Challenges.
- Integrating Lean Philosophy with Supply Chain Strategy.
- Identifying the Eight Wastes (Muda) in Supply Chain Operations.
- The Concept of Value from the Customer's Perspective.
- Introduction to Continuous Improvement (Kaizen).

Unit Two: Value Stream Mapping and Process Analysis

- The Role of Value Stream Mapping (VSM) in Lean SCM.
- Creating a Current State Map for a Supply Chain Process.
- Analyzing Flow, Identifying Waste, and Spotting Bottlenecks.
- Designing a Future State Value Stream Map.
- Key Metrics in VSM: Takt Time, Cycle Time, and Lead Time.
- Process Mapping and Spaghetti Diagrams for Detailed Analysis.
- Developing an Action Plan for Future State Implementation.

Unit Three: Core Lean Tools for Supply Chain Optimization

- Implementing the 5S System for Workplace Organization.
- Just-in-Time (JIT) Production and Delivery Systems.
- Kanban Systems for Pull-Based Inventory Control.
- Poka-Yoke (Mistake-Proofing) to Improve Quality.
- Single-Minute Exchange of Die (SMED) for Reduced Setup Times.
- Heijunka (Production Leveling) for Stable Operations.
- Total Productive Maintenance (TPM) for Equipment Reliability.

Unit Four: Performance Measurement and Continuous Improvement

- Developing Key Performance Indicators (KPIs) for a Lean Supply Chain.
- The Role of Visual Management in Monitoring Performance.
- Root Cause Analysis Techniques (5 Whys, Fishbone Diagram).
- A3 Problem-Solving and Reporting Methodology.
- Conducting Effective Kaizen Events and Blitzes.
- Statistical Process Control (SPC) Basics for Quality Monitoring.
- Building a Balanced Scorecard for Supply Chain Excellence.

Unit Five: Sustaining a Lean Transformation

- The Role of Leadership in Driving a Lean Culture.
- Change Management Strategies for Lean Implementation.
- Employee Engagement and Empowerment in a Lean Environment.
- Integrating Lean with Technology (ERP, WMS, SCM Systems).
- Building a Resilient and Agile Lean Supply Chain.
- Future Trends in Lean Supply Chain Management.
- Creating a Roadmap for Sustained Continuous Improvement.

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:

In an era of increasing supply chain disruptions, how can the principles of Lean, which emphasize minimal inventory, be reconciled with the need for greater resilience and redundancy?

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

This course distinguishes itself by offering a holistic and strategic perspective on Lean supply chain management, moving beyond a mere toolkit-based approach. While many programs focus solely on the implementation of individual Lean tools, this training emphasizes the critical integration of these tools into a cohesive, end-to-end supply chain strategy. We delve deeply into the cultural and leadership aspects required to sustain a Lean transformation, addressing the human elements of change management that are often the biggest barriers to success. The curriculum is uniquely structured to bridge the gap between operational process improvement and strategic business objectives, ensuring that every efficiency gain contributes directly to customer value and competitive advantage. Furthermore, the course content is grounded in both foundational academic principles, such as those from "Lean Thinking", and contemporary case studies reflecting today's challenges of digitalization and global disruptions. Participants leave not just with knowledge of what tools to use, but with a profound understanding of why and how to build a truly adaptive, resilient, and continuously improving supply chain ecosystem.