Optimizing Supply Chains with Advanced ERP Systems Training Course



23 - 27 Nov 2026

Madrid

5900 € (Per Person)

Ref: #PSC8936_133184

Course Introduction / Overview:

This intensive training course provides a comprehensive exploration of leveraging advanced Enterprise Resource Planning (ERP) systems to achieve superior supply chain performance. In today's volatile global market, an integrated and responsive supply chain is not just a competitive advantage; it is a necessity for survival and growth. This program moves beyond basic ERP functions to delve into strategic optimization, data-driven decision-making, and the alignment of technology with business objectives. As articulated by the renowned academic Martin Christopher in his seminal work, "Logistics & Supply Chain Management," the real competition is between supply chains, not companies. This course, offered by BIG BEN Training Center, equips professionals with the methodologies to build such a competitive supply chain. Participants will explore how to configure and utilize ERP modules for procurement, inventory control, logistics, and demand forecasting to create a seamless flow of information and materials from supplier to customer, ultimately driving efficiency, reducing costs, and enhancing customer satisfaction.

Target Audience / This training course is suitable for:

- Supply Chain Managers and Analysts.
- Logistics and Distribution Managers.
- Procurement and Sourcing Professionals.
- ERP Consultants and System Analysts.
- Operations Managers.
- IT Managers involved in ERP implementation.
- Inventory Control Planners and Specialists.
- Business Process Owners.

Target Sectors and Industries:

- Manufacturing and Industrial Production.
- Retail and Consumer Goods.
- Logistics and Third-Party Logistics (3PL) Providers.
- Pharmaceuticals and Healthcare.
- Automotive and Aerospace.
- Technology and Electronics.
- Governmental agencies and public sector supply chains.
- Food and Beverage Distribution.

Target Organizations Departments:

- Supply Chain Management.
- Logistics and Distribution.
- Procurement and Purchasing.
- Operations Management.
- Information Technology (IT).
- Finance and Accounting.
- Warehouse Management.
- Planning and Forecasting.

Course Offerings:

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

- Develop a strategic framework for aligning ERP capabilities with supply chain objectives.
- Analyze and optimize procurement and sourcing processes through ERP modules.
- Implement advanced inventory management techniques to reduce carrying costs and prevent stockouts.
- Utilize ERP data for accurate demand forecasting and production planning.
- Enhance logistics and transportation management for improved delivery performance.
- Measure supply chain performance using key performance indicators (KPIs) and ERP-generated reports.
- Evaluate emerging technologies and their potential integration with ERP for future supply chain enhancements.
- Lead ERP-driven business process improvement initiatives within their organizations.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, practical, and engaging, ensuring that participants can immediately apply their learning in a real-world context. The program eschews a purely theoretical approach, instead focusing on a blended learning model that combines expert-led instruction with hands-on application. Sessions will feature in-depth case studies of successful ERP implementations and supply chain transformations across various industries. Participants will work in collaborative teams on practical exercises and simulations that challenge them to solve complex supply chain problems using ERP principles. Group discussions and brainstorming sessions are integral to the course, fostering a rich learning environment where professionals can share experiences and insights. Our expert instructors facilitate these discussions, providing personalized feedback and guiding participants toward a deeper understanding of strategic supply chain optimization. The methodology emphasizes critical thinking and problem-solving, empowering attendees to become agents of change within their organizations.

Course Agenda (Course Units):

Unit One: Foundations of Integrated Supply Chain Management and ERP

- The strategic role of the supply chain in modern business.
- Core concepts of Enterprise Resource Planning (ERP) systems.
- The evolution of ERP and its impact on supply chain integration.
- Mapping key supply chain processes from end to end.
- Understanding the architecture of a modern ERP system.
- The critical link between master data management and supply chain efficiency.
- Identifying challenges in traditional, non-integrated supply chains.

Unit Two: Mastering Core SCM Modules in an ERP Environment

- Procure-to-Pay (P2P) process optimization.
- Strategic sourcing and supplier relationship management (SRM) modules.
- Advanced inventory management and control techniques.
- Order-to-Cash (O2C) cycle management and optimization.
- Material Requirements Planning (MRP) and capacity planning.
- Warehouse Management Systems (WMS) integration and functionality.
- Master Production Scheduling (MPS) within an ERP framework.

Unit Three: Advanced Planning, Logistics, and Execution Systems

- Demand planning and forecasting methodologies using ERP data.
- Advanced Planning and Scheduling (APS) systems.
- Transportation Management Systems (TMS) for logistics optimization.
- Global trade and compliance management within ERP.
- Optimizing order fulfillment and last-mile delivery.
- Reverse logistics and returns management processes.
- Real-time tracking and supply chain visibility platforms.

Unit Four: Data Analytics and Performance Management for the Supply Chain

- Defining key performance indicators (KPIs) for supply chain excellence.
- Utilizing ERP dashboards and business intelligence (BI) tools.
- Predictive analytics for proactive supply chain risk management.
- Conducting root cause analysis using ERP data.
- Cost-to-serve analysis for profitability optimization.
- Building a culture of data-driven decision-making.
- Reporting and communicating supply chain performance to stakeholders.

Unit Five: Strategic Implementation and Future of ERP in Supply Chains

- Developing a roadmap for an ERP-driven supply chain transformation.
- Change management strategies for successful ERP adoption.
- Cloud ERP versus on-premise solutions for the supply chain.
- The role of Artificial Intelligence (AI) and Machine Learning in future ERP.
- Integrating Internet of Things (IoT) devices for real-time data capture.
- Exploring the potential of blockchain for supply chain transparency.
- Building a resilient, agile, and sustainable supply chain with next-generation ERP.

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 ERP systems increasingly incorporate AI and predictive analytics, how does the role of the supply chain professional shift from being a process manager to a strategic data interpreter and risk mitigator?

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

This training course distinguishes itself by moving beyond the functional, button-pushing aspects of ERP software to cultivate a deep, strategic understanding of how these systems drive supply chain excellence. While other programs may focus narrowly on a single software or module, our curriculum provides a holistic, process-oriented perspective that is technology-agnostic and universally applicable. We emphasize the critical thinking required to not only use an ERP system but to configure and leverage it to solve complex business challenges. The course content is rooted in established academic principles of supply chain management while simultaneously addressing the most pressing contemporary issues, such as digital transformation, sustainability, and supply chain resilience. Participants will not just learn what ERP modules do; they will master why they are critical, how to measure their impact through sophisticated analytics, and how to lead change initiatives that ensure the technology delivers its promised value. The focus on case studies and peer-to-peer learning creates a uniquely rich environment for professional growth.