Inventory Analytics and Business Intelligence Integration Training Course



28 Dec 2026 - 01 Jan 2027

Vienna

5800 € (Per Person)

Ref: #IM7817_160092

Course Introduction / Overview:

This course provides a comprehensive exploration of integrating advanced inventory analytics with powerful business intelligence (BI) systems to drive strategic decision-making and operational excellence. In today's competitive landscape, simply managing stock levels is insufficient; organizations must leverage data to predict trends, optimize holdings, and enhance supply chain resilience. This program is designed to bridge the critical gap between traditional inventory control methods and modern data-driven strategies. We will delve into the principles outlined by leading academics like Dr. Sunil Chopra, whose work in "Supply Chain Management: Strategy, Planning, and Operation" emphasizes the strategic importance of analytical capabilities. Participants will learn to transform raw inventory data into actionable insights, creating dynamic dashboards and predictive models that improve forecasting accuracy, reduce carrying costs, and prevent stockouts. BIG BEN Training Center has developed this curriculum to empower professionals with the skills to not just report on inventory metrics but to architect an intelligent inventory management ecosystem that provides a significant competitive advantage and supports sustainable business growth.

Target Audience / This training course is suitable for:

- Inventory Managers and Controllers.
- Supply Chain Analysts and Planners.
- Business Intelligence Professionals and Data Analysts.
- Operations Managers and Supervisors.
- Logistics and Warehouse Managers.
- Procurement and Sourcing Specialists.
- Financial Analysts and Accountants.
- IT Professionals involved in ERP and data systems.

Target Sectors and Industries:

- Retail and E-commerce.
- Manufacturing and Industrial Production.
- Logistics, Warehousing, and Distribution.
- Pharmaceuticals and Healthcare.
- Automotive and Aerospace.
- Fast-Moving Consumer Goods (FMCG).
- Technology and Electronics.
- Government and Public Sector Operations.

Target Organizations Departments:

- Supply Chain Management.
- Logistics and Distribution.
- Operations and Production.
- Finance and Accounting.
- Procurement and Purchasing.
- Business Intelligence and Data Analytics.
- Information Technology (IT).
- Strategic Planning.

Course Offerings:

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

- Master foundational and advanced inventory analysis techniques like ABC and XYZ analysis.
- Develop and interpret key performance indicators (KPIs) for effective inventory management.
- Integrate disparate inventory data sources into a unified business intelligence platform.
- Apply predictive analytics models for more accurate demand forecasting and stock optimization.
- Design and build interactive BI dashboards for real-time inventory monitoring and reporting.
- Translate complex inventory data into clear, actionable business strategies.
- Optimize safety stock levels and reorder points using data-driven methodologies.
- Enhance supply chain visibility and agility through integrated analytics.

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 professional context. This course moves beyond theoretical lectures by incorporating a blended learning approach that includes hands-on exercises, real-world case study analysis, and collaborative group workshops. Participants will work with sample datasets to practice data integration, build analytical models, and design their own business intelligence dashboards. Interactive sessions will encourage peer-to-peer learning and the sharing of industry-specific challenges and solutions. Our expert instructors facilitate a dynamic environment where open discussion and critical thinking are paramount. Continuous feedback is provided throughout the sessions to guide participant development and reinforce key concepts. The curriculum emphasizes a problem-solving approach, empowering attendees to tackle complex inventory challenges by transforming data into a strategic asset for their organizations.

Course Agenda (Course Units):

Unit One: Foundations of Modern Inventory Management

- The strategic role of inventory in the supply chain.
- Types of inventories and their associated costs.
- Classic inventory control models and their limitations.
- Introduction to inventory key performance indicators (KPIs).
- Conducting ABC analysis for inventory categorization.
- Applying XYZ analysis for demand volatility assessment.
- Principles of data quality for accurate inventory analytics.

Unit Two: Business Intelligence Fundamentals for Supply Chain

- Introduction to Business Intelligence (BI) and its components.
- The role of BI in enhancing supply chain visibility.
- Understanding data warehousing and data marts for inventory.
- Exploring data sources for inventory management (ERP, WMS, POS).
- The process of data extraction, transformation, and loading (ETL).
- Connecting BI tools to inventory data systems.
- Differentiating between descriptive, diagnostic, predictive, and prescriptive analytics.

Unit Three: Data Modeling and Integration for Inventory Analytics

- Principles of data modeling for effective analysis.
- Building a relational data model for inventory management.
- Techniques for cleaning and preparing inventory data.
- Integrating sales, procurement, and logistics data.
- Creating calculated measures and columns for advanced KPIs.
- Establishing relationships between different data tables.
- Best practices for ensuring data model scalability and performance.

Unit Four: Advanced and Predictive Inventory Analytics

- Statistical methods for demand forecasting.
- Time-series analysis for identifying trends and seasonality.
- Calculating and optimizing safety stock levels.
- Applying the Economic Order Quantity (EOQ) model.
- Introduction to predictive analytics for stockout prevention.
- Using regression analysis to identify demand drivers.
- Simulation and what-if analysis for inventory scenarios.

Unit Five: BI Dashboarding, Reporting, and Strategic Implementation

- Principles of effective data visualization for inventory.
- Designing and building interactive inventory dashboards.
- Techniques for storytelling with data to influence decisions.
- Automating inventory reports and alerts.
- Developing a roadmap for BI integration in inventory management.
- Change management for adopting a data-driven culture.
- Presenting analytical findings to executive leadership for strategic alignment.

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 AI-driven predictive analytics becomes more accessible, how might the traditional role of an inventory manager evolve from operational oversight to strategic foresight?

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

This course distinguishes itself by holistically merging the foundational principles of inventory management with the transformative power of modern business intelligence and predictive analytics. Unlike programs that focus narrowly on either supply chain theory or specific software tools, this training provides a strategic, integrated framework. It empowers participants not just to track inventory but to understand the story the data tells and to use that narrative to drive business strategy. The curriculum is built on a practical, hands-on approach that bridges the gap between theoretical knowledge and real-world application, ensuring participants can build and interpret complex analytical models and dashboards. We emphasize the development of critical thinking and data literacy, enabling professionals to ask the right questions of their data. The focus is on creating a deep, conceptual understanding of how to leverage analytics for optimizing stock levels, improving forecast accuracy, and ultimately, turning the inventory management function from a cost center into a strategic driver of profitability and competitive advantage.