Digital Inventory and Asset Management Transformation Training Course

01 - 05 Nov 2026

Amman

3800 € (Per Person)

Ref: #IM5934_242044

Course Introduction / Overview:

The transition from traditional, manual methods to automated, intelligent systems is no longer an option but a necessity for competitive survival and growth. This course provides a comprehensive roadmap for navigating the digital transformation of inventory tracking and asset management. It delves into the core principles that drive operational efficiency, enhance supply chain visibility, and unlock new value streams through technology. We will explore the foundational concepts discussed by leading academics like Dr. David Simchi-Levi in works such as "Designing and Managing the Supply Chain," which emphasizes the integration of strategy and analytics. This program moves beyond theoretical knowledge, focusing on the practical implementation of technologies like RFID, IoT, and AI-driven analytics for real-time asset tracking and predictive inventory control. Participants will learn to build a robust digital ecosystem that minimizes waste, reduces costs, and improves decision-making. At BIG BEN Training Center, we are committed to equipping professionals with the skills to lead this change, ensuring their organizations can effectively manage the entire asset lifecycle, from procurement to disposal, in a dynamic digital landscape. This training is designed to be a definitive guide for mastering modern inventory and asset management strategies.

Target Audience / This training course is suitable for:

- Supply Chain Managers and Directors.
- Inventory Control Specialists and Planners.
- Asset Management Professionals.
- Warehouse and Logistics Supervisors.
- Operations Managers.
- IT Managers and Systems Analysts involved in supply chain solutions.
- Procurement and Sourcing Professionals.
- Financial Controllers and Accountants responsible for asset valuation.
- Facilities Managers.
- Project Managers overseeing digital transformation initiatives.

Target Sectors and Industries:

- Manufacturing and Industrial Production.
- Retail and E-commerce.
- Logistics and Third-Party Logistics (3PL) Providers.
- Healthcare and Pharmaceuticals.
- Construction and Engineering.
- Government Agencies and Public Sector Organizations.
- Information Technology and Telecommunications.
- Aerospace and Defense.
- Oil and Gas.
- Hospitality and Food Services.

Target Organizations Departments:

- Supply Chain and Logistics.
- Operations Management.
- Information Technology (IT).
- Finance and Accounting.
- Procurement and Purchasing.
- Warehouse Management.
- Asset Management.
- Facilities Management.
- Internal Audit and Compliance.
- Strategic Planning.

Course Offerings:

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

- Evaluate and select appropriate digital tracking technologies like RFID, IoT, and barcodes.
- Design and implement a comprehensive digital asset management strategy.
- Utilize data analytics and AI for predictive inventory forecasting and optimization.
- Integrate inventory and asset management systems with other enterprise platforms (ERP).
- Develop key performance indicators (KPIs) to measure the effectiveness of digital systems.
- Manage the change process associated with technology adoption in the workplace.
- Enhance supply chain visibility and traceability from end to end.
- Conduct a risk assessment for cybersecurity threats in a connected inventory ecosystem.
- Create a business case and calculate the ROI for digital transformation projects.
- Apply principles of sustainable and circular economy asset management.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, practical, and highly interactive, ensuring that participants can translate theoretical knowledge into real-world capabilities. This course moves beyond traditional lectures by incorporating a blended learning approach. We utilize detailed case studies of successful digital transformation projects, allowing participants to analyze challenges and strategies from leading global companies. A significant portion of the training is dedicated to hands-on workshops and simulation exercises where attendees will design tracking systems and analyze sample data sets. Collaborative group discussions and brainstorming sessions are central to our method, encouraging participants to share experiences and solve complex problems collectively. Our expert instructors facilitate these sessions, providing personalized feedback and guiding participants through the latest industry best practices. The program emphasizes a strategic mindset, equipping attendees not just with technical skills but also with the change management and leadership acumen required to drive digital initiatives successfully within their organizations. This dynamic and engaging environment ensures maximum knowledge retention and immediate applicability on the job.

Course Agenda (Course Units):

Unit One: Foundations of Digital Inventory and Asset Management

- The Evolution from Traditional to Digital Systems.
- Differentiating Between Inventory Tracking and Asset Management.
- Core Principles of Modern Supply Chain Management.
- Challenges and Limitations of Manual Tracking Methods.
- The Strategic Importance of Digital Transformation in Operations.
- Understanding the Asset Lifecycle from Acquisition to Disposal.
- Key Terminology and Concepts in Digital Asset Ecosystems.

Unit Two: Core Technologies for Tracking and Monitoring

- Deep Dive into Barcodes, QR Codes, and Their Applications.
- Radio-Frequency Identification (RFID): Passive vs. Active Systems.
- Internet of Things (IoT) Sensors for Real-Time Condition Monitoring.
- Global Positioning Systems (GPS) and Geofencing for Mobile Assets.
- Bluetooth Low Energy (BLE) and Beacons for Indoor Tracking.
- Comparing Technologies: Cost, Scalability, and Use-Case Suitability.
- Practical Workshop: Designing a Technology Mix for a Sample Warehouse.

Unit Three: Systems, Software, and Integration

- Overview of Inventory Management Systems (IMS) and Warehouse Management Systems (WMS).
- Enterprise Asset Management (EAM) and Computerized Maintenance Management Systems (CMMS).
- Cloud-Based vs. On-Premise Software Solutions.
- The Role of Enterprise Resource Planning (ERP) Systems in Integration.
- Application Programming Interfaces (APIs) and Data Exchange Protocols.
- Ensuring Data Integrity and System Interoperability.
- Vendor Selection and Software Implementation Best Practices.

Unit Four: Data Analytics, AI, and Process Optimization

- Leveraging Data for Informed Decision-Making.
- Developing Key Performance Indicators (KPIs) for Inventory and Assets.
- Introduction to Predictive Analytics for Demand Forecasting.
- Using Artificial Intelligence (AI) for Inventory Optimization and Automation.
- Building Dashboards for Real-Time Visibility and Control.
- The Concept of a Digital Twin for Asset Performance Management.
- Data Governance and Ensuring High-Quality Data Inputs.

Unit Five: Strategy, Implementation, and Future Trends

- Developing a Digital Transformation Roadmap.
- Change Management: Gaining Stakeholder Buy-In and Training Staff.
- Cybersecurity Risks in a Connected Supply Chain.
- Sustainable Asset Management and the Circular Economy.
- Regulatory Compliance and Digital Audit Trails.
- The Future of Tracking: Blockchain, Drones, and Advanced Robotics.
- Final Project: Creating a Strategic Implementation Plan for a Fictional Company.

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 real-time asset tracking becomes ubiquitous, what are the ethical implications of monitoring not just the asset, but also the personnel interacting with it, and how can organizations balance efficiency gains with employee privacy?

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

This course distinguishes itself by offering a holistic, strategy-first approach to digital transformation rather than focusing solely on technology. While many programs explain what RFID or IoT are, we concentrate on how to strategically select, implement, and integrate these technologies to solve specific business problems and generate a measurable return on investment. Our curriculum is uniquely structured to bridge the gap between operational teams, IT departments, and executive leadership, fostering a common language and vision for change. The program heavily emphasizes the "how-to" of implementation, covering critical but often-overlooked topics like change management, data governance, and cybersecurity within the supply chain context. Furthermore, the course is forward-looking, dedicating significant time to emerging trends like AI-driven optimization, digital twins, and sustainable asset management, ensuring participants are not just prepared for today's challenges but are equipped to lead tomorrow's innovations. The inclusion of practical workshops and a capstone strategy project ensures that learning is applied, not just absorbed, making the skills gained immediately actionable.