Advanced Warehouse Management and Inventory Control Training Course

02 - 06 Nov 2026

Kuala Lumpur

5200 € (Per Person)

Ref: #LOG5140_150511

Course Introduction / Overview:

This comprehensive training course provides an in-depth exploration of the principles and practices essential for world-class warehouse operations and precise inventory control. In today's fast-paced global market, the efficiency of the supply chain is a critical determinant of business success, with the warehouse at its very core. This program is meticulously designed to move beyond basic concepts, equipping participants with advanced strategies for optimizing space, streamlining processes, and managing inventory to reduce costs and enhance customer satisfaction. Drawing on foundational concepts from experts like Edward Frazelle, author of "World-Class Warehousing and Material Handling," the course integrates proven methodologies with modern technological solutions. Participants will learn to implement lean warehousing principles, leverage Warehouse Management Systems (WMS) effectively, and apply data-driven techniques for demand forecasting and inventory optimization. BIG BEN Training Center has developed this course to empower professionals to transform their warehouses from simple storage facilities into strategic assets that drive competitive advantage and operational excellence in a dynamic economic landscape.

Target Audience / This training course is suitable for:

- Warehouse Managers and Supervisors.
- Inventory Controllers and Planners.
- Supply Chain and Logistics Professionals.
- Operations Managers.
- Procurement and Purchasing Staff.
- Distribution Center Managers.
- Logistics Analysts.
- Individuals aspiring to a career in logistics and warehouse management.

Target Sectors and Industries:

- Manufacturing and Production.
- Retail and E-commerce.
- Third-Party Logistics (3PL) and Distribution.
- Pharmaceutical and Healthcare.
- Automotive and Aerospace.
- Food and Beverage.
- Government Agencies and Public Sector Logistics.
- Construction and Engineering.

Target Organizations Departments:

- Logistics and Distribution.
- Supply Chain Management.
- Warehouse Operations.
- Inventory Management.
- Procurement and Purchasing.
- Operations Management.
- Finance and Auditing.
- Quality Assurance.

Course Offerings:

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

- Develop robust strategies for inventory classification and control using ABC analysis.
- Implement effective cycle counting programs to ensure high levels of stock accuracy.
- Optimize warehouse layout and design for improved material flow and space utilization.
- Analyze and improve core warehouse processes, including receiving, put-away, picking, and shipping.
- Evaluate and select appropriate warehouse technologies such as WMS, barcode, and RFID systems.
- Establish and monitor key performance indicators (KPIs) to measure warehouse efficiency.
- Apply lean principles to eliminate waste and enhance productivity in warehouse operations.
- Develop comprehensive safety protocols and risk management plans for the warehouse environment.
- Master demand forecasting techniques to align inventory levels with market needs.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to foster a dynamic and engaging learning environment that bridges theory and practical application. This course utilizes a blended approach, combining expert-led presentations with interactive group discussions, allowing participants to share experiences and insights. A significant portion of the training is dedicated to hands-on learning through real-world case studies, practical exercises, and simulation activities that mirror the challenges faced in modern warehouse environments. Participants will work in collaborative teams to solve complex inventory and logistics problems, developing critical thinking and decision-making skills. The facilitator will provide continuous feedback and guide participants through the latest industry best practices and technological advancements. This immersive and participant-centered approach ensures that attendees not only grasp advanced concepts but also gain the confidence to implement these strategies effec
ively within their own organizations, driving tangible improvements in performance and efficiency.

Course Agenda (Course Units):

Unit One: Foundations of Modern Warehouse Management

- The strategic role of warehousing in the supply chain.
- Core functions and objectives of warehouse operations.
- Understanding different types of warehouses and storage systems.
- Principles of effective warehouse layout and design.
- Health, safety, and environmental (HSE) standards in the warehouse.
- Introduction to warehouse key performance indicators (KPIs).
- The financial impact of warehouse and inventory management.

Unit Two: Advanced Inventory Control and Demand Planning

- Fundamentals of inventory management and its importance.
- Inventory classification techniques including ABC and FSN analysis.
- Implementing and managing cycle counting programs for stock accuracy.
- Calculating safety stock, reorder points, and Economic Order Quantity (EOQ).
- Just-in-Time (JIT) and Kanban inventory systems.
- Strategies for managing slow-moving and obsolete stock (SLOB).
- Introduction to demand forecasting models and techniques.

Unit Three: Optimizing Warehouse Processes and Layout

- Analyzing the receiving and put-away processes for efficiency.
- Order picking strategies (e.g., wave, batch, zone picking).
- Best practices in packing, staging, and shipping operations.
- Implementing cross-docking to reduce storage time and handling.
- Value-added services in the warehouse environment.
- Applying lean principles to eliminate waste in warehousing.
- Process mapping and workflow analysis for continuous improvement.

Unit Four: Technology and Automation in Warehousing

- The role and benefits of a Warehouse Management System (WMS).
- Barcode and RFID technologies for tracking and visibility.
- Exploring different levels of warehouse automation and robotics.
- Data analytics and business intelligence for warehouse decision-making.
- Integrating WMS with Enterprise Resource Planning (ERP) systems.
- The Internet of Things (IoT) in smart warehousing.
- Selecting and implementing new warehouse technologies.

Unit Five: Performance Management, Safety, and Future Trends

- Developing and tracking warehouse performance metrics and KPIs.
- Cost control and budget management in warehouse operations.
- Conducting effective warehouse audits and performance reviews.
- Comprehensive risk assessment and management strategies.
- Building a culture of safety and continuous improvement.
- Sustainability and green warehousing initiatives.
- Future trends in warehousing, including AI and predictive analytics.

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 automation and AI become more prevalent, how might the role of the human warehouse manager evolve from an operational supervisor to a strategic data analyst?

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

This course distinguishes itself by providing a holistic and strategic perspective on warehouse and inventory management, moving beyond purely operational training. While many programs focus on the "how," this course deeply explores the "why," connecting every process to its financial and strategic impact on the broader supply chain. It uniquely integrates classic, proven methodologies with a forward-looking examination of emerging technologies like AI, IoT, and robotics, preparing participants not just for today's challenges but for the future of logistics. The curriculum places a strong emphasis on data-driven decision-making, teaching participants how to leverage analytics and KPIs to drive continuous improvement rather than simply following a set of procedures. Furthermore, the course content is enriched with principles of lean management and sustainability, addressing modern business imperatives for efficiency and corporate responsibility. The interactive case studies are designed to reflect complex, real-world scenarios, ensuring that participants develop practical problem-solving skills applicable across diverse industries, from e-commerce fulfillment to industrial manufacturing.