

Training Course on Integrated Inventory and Warehouse Management

Professional Development Training Course Outline

Category	Development	Duration	10 Days
Base Fee	\$3,000 USD	Delivery Mode	Online / On-site Hybrid

Course Introduction

In today’s dynamic supply chain landscape, efficient **inventory and warehouse management** has become the cornerstone of operational excellence. This course offers a **comprehensive, technology-driven approach** to streamlining inventory control, reducing storage costs, and improving overall warehouse productivity. Participants will explore cutting-edge concepts like **automated inventory tracking, real-time analytics, AI-based demand forecasting**, and the use of **Warehouse Management Systems (WMS)** to enhance end-to-end visibility and control.

Designed for professionals seeking to **optimize warehouse operations** and align inventory strategies with business goals, this course blends **modern inventory planning techniques, integrated ERP solutions, and sustainability-focused logistics**. Participants will gain practical skills through real-life case studies, simulations, and interactive sessions aimed at **maximizing warehouse efficiency and minimizing waste** in the supply chain ecosystem.

Programme Curriculum

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Course Objectives

1. Understand the fundamentals of **inventory control and optimization**.
2. Implement **real-time inventory tracking systems** using IoT and RFID.
3. Analyze **warehouse operations** using data-driven KPIs.
4. Apply **demand forecasting techniques** using AI and predictive analytics.
5. Integrate **Warehouse Management Systems (WMS)** with ERP solutions.
6. Explore strategies for **space utilization and warehouse layout optimization**.
7. Improve **stock rotation practices** using FIFO, LIFO, and FEFO methodologies.
8. Learn the role of **cloud-based inventory management** in modern logistics.
9. Enhance inventory visibility with **blockchain and digital twins**.
10. Manage and reduce **dead stock and excess inventory**.
11. Automate warehouse workflows using **robotics and smart sensors**.
12. Monitor **supply chain sustainability and green warehousing practices**.
13. Develop strategic skills in **inventory auditing and loss prevention**.

Organizational Benefits

- Reduced **inventory carrying costs** and enhanced working capital.
- Improved **order fulfillment rates** and customer satisfaction.
- Streamlined **warehouse workflows** through automation.
- Increased visibility across the **supply chain network**.
- Minimized stockouts, overstocking, and **inventory shrinkage**.
- Enhanced decision-making with **real-time data dashboards**.
- Higher ROI through **optimized inventory turnover ratios**.

Target Participants

1. Supply Chain Managers
2. Inventory Controllers
3. Warehouse Supervisors
4. Procurement Officers
5. Logistics Coordinators
6. Operations Managers
7. ERP & IT Specialists
8. Business Analysts

Course Outline

Module 1: Inventory Management Fundamentals

- Inventory types and classifications
- Inventory flow cycles
- Inventory cost structures
- Inventory valuation methods

- Stock level optimization

Module 2: Warehouse Management Principles

- Warehouse functions and design
- Receiving and put-away processes
- Picking and packing strategies
- Warehouse zoning and safety
- KPI metrics for warehouse efficiency

Module 3: Inventory Forecasting and Planning

- Forecasting methods (AI/ML)
- Historical data analysis
- Sales & demand trend projections
- Lead time and seasonality
- Forecast accuracy improvement

Module 4: WMS and ERP Integration

- WMS functionalities and architecture
- ERP module overview
- Data synchronization challenges
- Integration case studies
- Real-time system dashboards

Module 5: Real-Time Tracking Technologies

- RFID, barcodes, and QR systems
- IoT sensors in warehousing
- GPS-enabled asset tracking
- Mobile inventory applications
- Visibility and alert systems

Module 6: Warehouse Layout and Design

- Layout planning principles
- Space utilization metrics
- Aisle width optimization
- Slotting strategies
- Lean warehousing design

Module 7: Inventory Auditing Techniques

- ABC analysis
- Cycle counting vs. physical inventory
- Audit frequency planning
- Inventory discrepancies resolution
- Reporting and compliance

Module 8: Warehouse Automation

- Conveyor systems
- Robotic process automation

- Automated guided vehicles (AGVs)
- Smart shelving and storage
- ROI of automation

Module 9: Demand-Driven Inventory Control

- Push vs. pull systems
- Customer-centric inventory models
- Inventory buffers and safety stock
- Demand sensing tools
- Replenishment planning

Module 10: Inventory Risk Management

- Identifying inventory risks
- Scenario planning
- Backup suppliers and lead times
- Business continuity strategies
- Mitigating supply disruptions

Module 11: Sustainability in Warehousing

- Energy-efficient storage
- Waste reduction practices
- Green packaging solutions
- Carbon footprint tracking
- Eco-compliance strategies

Module 12: Performance Measurement and KPIs

- Key performance indicators (KPIs)
- Benchmarking industry standards
- Real-time performance dashboards
- Data analytics in performance review
- Continuous improvement models

Module 13: Lean Inventory Strategies

- Lean principles in inventory
- Just-In-Time (JIT) systems
- Inventory flow optimization
- Waste elimination
- Pull-based inventory control

Module 14: Handling Returns and Reverse Logistics

- Return management process
- Refurbishment and resale
- Reverse supply chain flow
- Restocking procedures
- Data collection and analysis

Module 15: Future Trends in Inventory and Warehousing

- AI and ML innovations
- Blockchain for inventory traceability
- Digital twins in warehouse simulation
- Cloud-based inventory platforms
- Cybersecurity in inventory systems

Training Methodology

- Interactive Lectures & Presentations
- Real-life Case Studies & Industry Examples
- Hands-on Simulations and Group Exercises
- Live System Demonstrations (WMS & ERP)
- Assessments and Quizzes for Retention
- Discussion Forums and Peer Learning
- Expert Guest Speaker Sessions
- Post-training Resource Toolkit

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call +254769199797

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

- a.** The participant must be conversant with English.
- b.** Upon completion of training the participant will be issued with an Authorized Training Certificate
- c.** Course duration is flexible and the contents can be modified to fit any number of days.
- d.** The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.
- e.** One-year post-training support Consultation and Coaching provided after the course.
- f.** Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
21 Sep 2026	02 Oct 2026	Online	\$2,000
21 Sep 2026	02 Oct 2026	Physical	\$3,000
21 Sep 2026	02 Oct 2026	Physical	\$0
21 Sep 2026	02 Oct 2026	Physical	\$0
21 Sep 2026	02 Oct 2026	Physical	\$0
21 Sep 2026	02 Oct 2026	Physical	\$0
21 Sep 2026	02 Oct 2026	Physical	\$0
21 Sep 2026	02 Oct 2026	Physical	\$0

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