# 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

**Training Course on Integrated Inventory and Warehouse Management**

**Introduction**

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**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.

**Course Duration**

10 days

**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 |
|---|---|---|---|
| **23 Nov 2026** | 04 Dec 2026 | Online | $2,000 |
| **23 Nov 2026** | 04 Dec 2026 | Physical | $3,000 |
| **23 Nov 2026** | 04 Dec 2026 | Physical | $6,000 |
| **23 Nov 2026** | 04 Dec 2026 | Physical | $6,000 |
| **23 Nov 2026** | 04 Dec 2026 | Physical | $12,000 |
| **23 Nov 2026** | 04 Dec 2026 | Physical | $9,000 |
| **23 Nov 2026** | 04 Dec 2026 | Physical | $12,000 |
| **23 Nov 2026** | 04 Dec 2026 | Physical | $12,000 |

Ready to enroll or request a customized program? Book online or contact us:

**Register Online Now**

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com