Training Course on Planning and Inventory Management

Professional Development Training Course Outline

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

Course Introduction

Effective Planning and Inventory Management is the backbone of modern supply chain excellence. As global markets evolve and consumer demands shift rapidly, mastering the art of inventory optimization, demand forecasting, and supply chain planning is crucial. Training Course on Planning and Inventory Management equips learners with the tools and techniques necessary to streamline operations, reduce waste, and improve service levels, using cutting-edge technologies such as ERP systems, AI-powered demand planning, and real-time inventory analytics.

In today’s data-driven logistics landscape, businesses must leverage predictive analytics, lean inventory strategies, and automated replenishment models to stay competitive. This course blends theoretical concepts with practical implementation, making it ideal for professionals aiming to lead with agility, maximize ROI, and boost operational efficiency across warehouses, retail outlets, and global distribution networks.

Programme Curriculum

Training Course on Planning and Inventory Management

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Course Objectives

1. Understand the fundamentals of supply chain planning and inventory control.
2. Learn to apply demand forecasting techniques using real-time data.
3. Explore inventory turnover ratios and their impact on cash flow optimization.
4. Analyze the role of just-in-time (JIT) inventory systems in reducing holding costs.
5. Master warehouse management systems (WMS) for efficient storage and retrieval.
6. Implement ABC analysis and cycle counting for inventory classification.
7. Gain proficiency in enterprise resource planning (ERP) software tools.
8. Design effective reorder point and safety stock strategies.
9. Improve supply chain visibility through IoT and smart technologies.
10. Evaluate the benefits of lean manufacturing and Kanban systems.
11. Manage supplier relationships to ensure timely replenishment.
12. Minimize stockouts and overstocks using automated replenishment.
13. Integrate AI and machine learning for predictive inventory planning.

Target Audience

1. Supply Chain Managers
2. Logistics Coordinators
3. Inventory Analysts
4. Warehouse Supervisors
5. Operations Managers
6. Procurement Officers
7. ERP System Users
8. Business Owners

Course Duration: 10 days

Course Modules

Module 1: Introduction to Inventory Management

- Definitions and concepts
- Types of inventory
- Importance in supply chain
- Inventory vs. asset
- Trends in inventory systems

Module 2: Forecasting and Demand Planning

- Qualitative vs. quantitative forecasting
- Seasonal trends and patterns
- Forecasting accuracy metrics
- Tools for demand planning
- Using historical data

Module 3: Inventory Optimization Techniques

- EOQ (Economic Order Quantity)
- Reorder point method
- Safety stock calculation
- Inventory reduction strategies
- Balancing service level and cost

Module 4: Inventory Performance Metrics

- Inventory turnover ratio
- Carrying cost analysis
- Fill rate and stockout rate
- Days of inventory on hand (DOH)
- KPI dashboard creation

Module 5: ERP and Inventory Systems

- Integrating inventory with ERP
- Benefits of automation
- Data migration best practices
- User roles and access control
- Real-time tracking and reporting

Module 6: ABC and XYZ Analysis

- Categorizing inventory by value
- Variability analysis
- Forecasting strategies for each class
- Inventory review techniques
- Usage-based classification

Module 7: Warehouse Management

- Layout and design principles
- Inventory storage methods
- Picking and packing techniques
- Barcode and RFID systems
- Reducing warehouse costs

Module 8: Lean Inventory and JIT

- Principles of lean logistics
- Pull vs. push systems
- Kanban board setup
- Waste elimination techniques
- Benefits of JIT

Module 9: Supply Chain Visibility

- Role of IoT devices
- Real-time tracking technologies
- Blockchain in inventory tracking
- Vendor-managed inventory (VMI)
- Data integration across platforms

Module 10: Inventory Risk Management

- Risk identification methods
- Contingency planning
- Buffer stock strategies
- Multi-sourcing strategies
- Monitoring external disruptions

Module 11: Cycle Counting & Physical Audits

- Cycle counting methods
- Audit schedule planning
- Data reconciliation techniques
- Shrinkage control
- Audit compliance reporting

Module 12: Sustainability in Inventory

- Green logistics practices
- Reducing inventory waste
- Sustainable packaging
- Circular inventory planning
- Compliance with environmental regulations

Module 13: Cost Control in Inventory

- Hidden costs of inventory
- Transportation and storage expenses
- Cost-benefit analysis
- Activity-based costing
- Budget alignment

Module 14: Inventory Automation and AI

- Benefits of automation

- AI-driven demand prediction
- Machine learning in supply chains
- Robotics in inventory management
- Predictive analytics dashboards

Module 15: Capstone Project & Final Assessment

- Real-world scenario simulation
- Strategy proposal and planning
- Tool-based implementation
- Group presentation
- Final review and feedback

Training Methodology

- Interactive lectures
- Real-time dashboards
- Case studies
- Hands-on ERP simulations
- Quizzes

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

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