Warehouse Layout Design Training Course

Professional Development Training Course Outline

Category	Logistics and Supply Chain Management	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Efficient warehouse layout design is critical in modern supply chain management and logistics optimization. Warehouses play a pivotal role in ensuring timely product movement, reducing operational costs, and enhancing customer satisfaction. Warehouse Layout Design Training Course provides participants with advanced knowledge, practical techniques, and industry best practices for designing and optimizing warehouse layouts. Participants will gain insights into workflow analysis, storage system selection, inventory management, and space utilization to improve overall operational efficiency. Emphasis is placed on integrating technology-driven solutions, such as automated storage and retrieval systems, RFID tracking, and warehouse management systems, to maximize productivity and reduce errors.

This course focuses on strategic planning, process improvement, and operational excellence. Participants will learn how to align warehouse design with organizational objectives, safety standards, and sustainability goals. The course highlights innovative approaches for facility layout optimization, including cross-docking, slotting strategies, and ergonomic considerations. Through case studies, practical exercises, and interactive sessions, learners will acquire skills to evaluate current warehouse layouts, identify bottlenecks, and implement cost-effective solutions. This training is ideal for professionals seeking to enhance efficiency, streamline workflows, and support organizational growth through optimized warehouse operations.

Programme Curriculum

Warehouse Layout Design Training Course

Introduction

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Course Objectives

1. Understand the principles of warehouse design and layout optimization.
2. Analyze warehouse workflow and identify operational bottlenecks.
3. Learn methods for effective space utilization and storage systems planning.
4. Apply technology-driven solutions to warehouse management.
5. Implement safety standards and ergonomic practices in warehouse layout.
6. Develop strategies for inventory flow and material handling efficiency.
7. Evaluate cross-docking and slotting techniques for process optimization.
8. Assess warehouse performance metrics and operational KPIs.
9. Plan cost-effective layouts aligned with organizational objectives.
10. Integrate sustainability and energy-efficient practices in warehouse design.
11. Enhance coordination between warehouse and logistics operations.
12. Utilize case studies to solve real-world warehouse challenges.
13. Prepare actionable plans for continuous improvement in warehouse operations.

Organizational Benefits

- Reduced operational costs through optimized layout and processes.
- Enhanced workflow efficiency and material movement.
- Improved inventory accuracy and management.
- Increased safety and ergonomics for warehouse staff.
- Greater space utilization and storage capacity.

- Integration of automation and technology for error reduction.
- Streamlined order fulfillment and cross-docking operations.
- Reduced turnaround time for inbound and outbound shipments.
- Improved decision-making using warehouse performance metrics.
- Support for sustainable and energy-efficient operations.

Target Audiences

- Warehouse managers and supervisors
- Logistics and supply chain professionals
- Operations managers
- Inventory and stock control personnel
- Facility planners and engineers
- Procurement and distribution managers
- Consultants in warehousing and logistics
- Professionals preparing for certification in warehouse management

Course Duration: 5 days

Course Modules

Module 1: Introduction to Warehouse Layout Design

- Overview of warehouse functions and objectives
- Types of warehouse layouts and their applications
- Principles of effective layout planning
- Key performance indicators for warehouse design
- Case Study: Optimizing a medium-sized distribution warehouse
- Practical Exercise: Mapping existing warehouse layout

Module 2: Workflow and Process Analysis

- Analyzing material flow and storage patterns
- Identifying bottlenecks and inefficiencies
- Process mapping techniques for warehouse operations
- Lean principles applied to warehouse workflow
- Case Study: Redesigning workflow for faster order processing

- Practical Exercise: Workflow improvement simulation

Module 3: Space Utilization and Storage Systems

- Evaluating storage system types (racks, shelves, bins)
- Maximizing vertical and horizontal space
- Slotting strategies for high-volume products
- FIFO and LIFO storage management techniques
- Case Study: Warehouse reorganization for seasonal demand
- Practical Exercise: Space optimization plan

Module 4: Technology in Warehouse Management

- Overview of warehouse management systems (WMS)
- RFID, barcode scanning, and automation applications
- Integrating automated storage and retrieval systems (ASRS)
- Data-driven decision making for inventory control
- Case Study: Implementing technology in a distribution center
- Practical Exercise: WMS workflow simulation

Module 5: Material Handling and Equipment Selection

- Types of material handling equipment
- Choosing the right equipment for warehouse layout
- Safety and ergonomic considerations
- Cost-benefit analysis of material handling solutions
- Case Study: Equipment selection for multi-level storage
- Practical Exercise: Handling efficiency evaluation

Module 6: Safety, Ergonomics, and Compliance

- Regulatory requirements and OSHA standards
- Ergonomic design principles for staff efficiency
- Risk assessment and mitigation strategies
- Emergency planning and fire safety
- Case Study: Safety audit and layout redesign
- Practical Exercise: Safety compliance checklist

Module 7: Inventory Flow Optimization

- Methods for inventory classification and control
- Cross-docking and order consolidation techniques
- Reducing picking, packing, and shipping errors
- Inventory replenishment strategies
- Case Study: Improving stock rotation and accuracy
- Practical Exercise: Inventory flow simulation

Module 8: Performance Evaluation and Continuous Improvement

- KPIs for warehouse efficiency and effectiveness
- Continuous improvement methodologies (Kaizen, Six Sigma)
- Monitoring and reporting warehouse performance
- Benchmarking best practices in warehouse operations
- Case Study: Applying continuous improvement in a logistics hub
- Practical Exercise: Performance measurement exercise

Training Methodology

- Interactive lectures with real-world examples
- Hands-on practical exercises and simulations
- Case study analysis for applied learning
- Group discussions and problem-solving sessions
- Technology demonstrations and workflow mapping
- Continuous assessment through exercises and feedback

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	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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