

Warehouse Operations Management and Process Optimization

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Overview

Modern distribution facilities face escalating storage costs, inventory inaccuracy, and throughput bottlenecks across high-volume supply chains. This programme delivers practical methodologies for warehouse operations management and process optimization across diverse storage environments. Participants master warehouse slotting analysis, cycle counting protocols, picking path optimization, and lean visual management to streamline inventory velocity and labor productivity. Professionals leave with actionable workflow audit checklists, standard operating procedures, and key performance indicators. This course is delivered by Agile Leaders Training Center.

Who Should Attend

- Specialists responsible for managing storage capacity, goods receipt, and stock replenishment schedules.
- Supervisors responsible for coordinating order picking workflows, packing lines, and dispatch operations.
- Analysts responsible for monitoring inventory record accuracy, cycle counting, and shrinkage control.
- Engineers responsible for facility layout design, material handling equipment selection, and dock utilization.
- Team leaders responsible for warehouse safety governance, standard work adoption, and continuous improvement projects.

Departments and Industries

This course serves operations and logistics professionals across manufacturing, retail, and industrial distribution environments.

- Distribution and Logistics Divisions in Fast-Moving Consumer Goods
- Materials Management Units in Industrial Equipment Manufacturing
- Fulfilment Operations Groups in Omnichannel Retail and E-Commerce
- Spare Parts Warehousing Teams in Automotive Assembly and Distribution
- Cold Chain Logistics Units in Food and Beverage Processing

Learning Objectives

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

- Apply warehouse slotting analysis to maximize storage density and picking velocity.
- Diagnose process bottlenecks across receiving, put-away, picking, and dispatch workflows.
- Build cycle counting schedules to maintain inventory record accuracy above critical thresholds.
- Evaluate material handling equipment options using travel distance and operating cost models.
- Prioritise continuous improvement initiatives using lean 5S audits and value stream maps.
- Construct warehouse performance dashboards using standard order fulfilment metrics.

Course Agenda

Day 1: Receiving Operations and Storage Strategy

- Inbound Receiving Inspection using Advanced Shipping Notice Verification
- Dock Scheduling Protocols using Inbound Appointment Management Systems
- Pallet Put-Away Sequencing using Dynamic Location Assignment Algorithms
- Storage Density Evaluation using Cubic Space Utilization Calculations
- Storage Equipment Selection using Racking Safety Guidelines under EN 15635

Day 2: Inventory Control and Record Accuracy

- Inventory Stratification using ABC and FSN Classification Matrices
- Discrepancy Root Cause Analysis using Fishbone Diagrams and 5-Why Sheets
- Cycle Counting Implementation using Periodic Tolerance Verification Registers
- Stock Ageing Control using FIFO and FEFO Inventory Control Models
- Safety Stock Sizing using Demand Variability and Lead Time Formulas

Day 3: Order Picking and Fulfilment Optimization

- Pick Path Design using Travelling Salesperson Routing Heuristics
- Order Batching Strategies using Wave and Zone Picking Workflows
- Order Verification Quality Audits using Pick-to-Light and Barcode Scanning
- Packing Line Ergonomics using Workstation Motion Economy Principles
- Outbound Dock Staging Optimization using Marshalling Lane Allocation Plans

Day 4: Lean Warehousing and Process Flow

- Warehouse Waste Identification using Value Stream Mapping Protocols
- Workplace Organization Standards using 5S Assessment Scorecards
- Material Movement Optimization using Spaghetti Diagram Workflow Audits
- Standardized Work Documentation using Standard Operating Procedure Templates
- Visual Workplace Controls using Andon Boards and Floor Marking Standards

Day 5: Performance Measurement and Operational Execution

- Fulfilment KPI Tracking using Order Lead Time and OTIF Dashboards
- Labour Productivity Benchmarking using Engineered Labor Standards
- Warehouse Safety Auditing using Incident Reporting and Hazard Checklists
- Operational Bottleneck Mitigation using Kaizen Rapid Improvement Charters
- Capstone Integrated Warehouse Layout and Process Optimization Simulation

Practical Exercises

Participants complete hands-on activities to resolve operational challenges and build execution plans.

- Suggested activity: Design an ABC-based warehouse slotting layout to reduce picker travel time.
- Suggested activity: Map an inbound receiving process to identify non-value-added bottlenecks.
- Suggested activity: Formulate a root cause analysis worksheet for stock inventory variances.
- Suggested activity: Build an operational KPI scorecard tracking dock-to-stock and order accuracy metrics.

FAQs

How does this course address inventory accuracy?

The syllabus provides structured cycle counting methodologies, ABC stratification, and root cause variance analysis to eliminate stock discrepancies and avoid costly physical stock counts.

What picking methods are evaluated during the sessions?

Participants examine piece, batch, zone, and wave picking configurations alongside barcode scanning and automated routing heuristics to streamline order fulfilment speed.

Which international standards are covered?

The training covers racking inspection and warehouse safety principles referenced in EN 15635, alongside established lean warehousing tools and engineered labor standards.

Conclusion

Participants return to their facilities equipped with structured methodologies to optimize space, streamline labor, and control inventory movement. By implementing disciplined slotting strategies, cycle counting, and lean process controls, operations teams eliminate waste, shorten fulfilment cycles, and build resilient warehousing workflows that support evolving business demand.

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