ADVANCED WAREHOUSE OPERATIONS & MANAGEMENT



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TRAINING CENTER

GENTEX Training Center LLC | Orlando - FL, USA
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Introduction

A warehouse earns its keep when goods arrive, move, and leave without delay, damage, or doubt about their location. Every wasted step, misplaced pallet, or inaccurate record adds cost that no pricing decision can recover. This Advanced Warehouse Operations & Management Training Course gives warehouse, logistics, and inventory professionals a structured method to design layouts, run receiving and dispatch, lift productivity, and control stock accuracy. Participants learn how to set slotting rules, apply picking and put-away strategies, measure throughput and cost per order, and use WMS and barcode data to drive decisions. Furthermore, the course links warehouse performance to safety, service levels, and the wider supply chain.

Advanced Warehouse Operations & Management Course Objectives

- Design warehouse layouts and zoning that cut travel time and improve flow.
- Apply slotting rules based on velocity, cube, weight, and product affinity.
- Run receiving, put-away, picking, packing, and dispatch to documented standards.
- Select picking strategies: zone, batch, wave, and cluster picking.
- Set storage equipment and handling decisions for racking, pallet trucks, and forklifts.
- Improve inventory accuracy with cycle counting, location discipline, and barcode or RFID capture.
- Apply 5S, kaizen, and value stream mapping to warehouse processes.
- Calculate warehouse capacity, throughput, labour requirements, and cost per order.
- Embed health and safety controls, risk assessments, and manual handling rules.
- Use WMS, barcode systems, and KPI dashboards to monitor and improve operations.

Course Methodology

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- Facilitated sessions built on real warehouse layouts and order profiles.
- Layout and slotting exercises with travel distance and flow analysis.
- Simulation of a receiving-to-dispatch cycle under service level targets.
- Lean exercises applying 5S and value stream mapping to storage areas.
- Group work on a warehouse productivity and safety improvement plan.

Who Should Take This Course

- Warehouse managers, supervisors, and team leaders.
- Logistics and distribution centre staff.
- Inventory and stock control officers.
- Supply chain and operations coordinators.
- WMS super users and process improvement officers.
- Health and safety staff in storage and handling environments.

Advanced Warehouse Operations & Management Course Outlines

Day 1: Warehouse Design, Layout, and Capacity

- Warehouse functions and how they shape layout decisions.
- Flow types: U-flow, I-flow, and through-flow compared.
- Zoning: receiving, storage, pick face, packing, dispatch, and returns.
- Aisle width, rack configuration, and vertical space use.
- Cube utilisation and pallet footprint analysis.
- Capacity calculation and growth planning.
- Layout drawings and material flow diagrams.

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Day 2: Receiving, Put-Away, and Storage Systems

- Inbound scheduling, dock management, and vehicle turnaround.
- Goods receipt, quality checks, and discrepancy handling.
- Put-away strategies and directed versus free placement.
- Racking types: selective, drive-in, double deep, and cantilever.
- Bulk, small parts, and climate-controlled storage decisions.
- Handling equipment selection and operating rules.
- Labelling, item coding, and location addressing standards.

Day 3: Picking, Packing, and Dispatch

- Picking strategies: discrete, zone, batch, wave, and cluster.
- Pick path design and travel time reduction.
- Paper, RF scanner, voice, and pick-to-light methods.
- Packing standards, carton selection, and packaging cost control.
- Staging, load building, and vehicle loading plans.
- Dispatch documentation, proof of delivery, and returns flow.
- Cut-off times and service level management.

Day 4: Productivity, Accuracy, and Lean Warehouse Practice

- Labour standards, work measurement, and productivity targets.
- Cycle counting design and location accuracy discipline.
- Root cause analysis of picking errors, damages, and losses.
- 5S workplace organisation and visual management.

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- Kaizen events and value stream mapping in warehouse operations.
- Automation options: conveyors, AS/RS, and AGVs, with selection criteria.
- Safety controls: risk assessment, manual handling, and traffic management.

Day 5: Performance Management and Continuous Improvement

- KPIs: order accuracy, on-time dispatch, cost per order, and lines per hour.
- Warehouse cost structure and productivity reporting.
- Space utilisation, stock accuracy, and inventory reporting.
- Workforce planning, shift patterns, and peak season resourcing.
- WMS and dashboard reporting with exception alerts.
- Supplier, carrier, and 3PL performance review.
- Building a warehouse improvement roadmap.

Conclusion

By successfully completing the Advanced Warehouse Operations & Management Training Course, participants will have acquired a thorough working knowledge of warehouse layout design, receiving and dispatch control, picking and packing methods, productivity measurement, stock accuracy, lean practice, and safety management. They will leave able to raise throughput, cut cost per order, and improve order accuracy in their own facility. Gentex Training Center delivers this programme with logistics practitioners who manage live warehouse operations.

LEARN BOLD. **LEAD BEYOND**
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FAQs for the Advanced Warehouse Operations & Management course

Q1 What is the "Advanced Warehouse Operations & Management" course about?

It is a five-day programme on running and improving warehouse operations from receiving to dispatch. It covers layout and capacity planning, put-away and picking strategies, packing and load building, productivity and accuracy control, lean practice, safety, and performance measurement.

Q2 What are the key benefits of the "Advanced Warehouse Operations & Management" course?

Participants raise throughput and order accuracy while cutting cost per order and travel time. They also use space better, reduce damage and errors, and gain safety and KPI reporting that stand up in audits and client reviews.

Q3 What skills will I gain from the "Advanced Warehouse Operations & Management" course?

You will gain warehouse layout and capacity planning, receiving and dispatch operations control, picking and packing strategy design, and productivity, accuracy, and safety management with KPI reporting.

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Q4 What tools, methods, or standards are covered in the "Advanced Warehouse Operations & Management" course?

The course works with U-flow, I-flow, and through-flow layout models, velocity-based slotting, wave and batch picking methods, RF scanner and pick-to-light systems, WMS and barcode or RFID capture, cycle counting, 5S and kaizen with value stream mapping, labour standards and work measurement, and warehouse KPI dashboards.

Q5 How is the "Advanced Warehouse Operations & Management" course applied in real-world practice?

Teams apply it when redesigning a pick face, reslotting fast movers, planning peak season labour, cutting dispatch errors, and running 5S on the warehouse floor. It also guides automation business cases and carrier or 3PL performance reviews.