ADVANCED LOGISTICS & MATERIAL MANAGEMENT



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GENTEX Training Center LLC | Orlando - FL, USA
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Introduction

Logistics and materials management decide whether operations have what they need, when they need it, at a cost the business can carry. A weak link a delayed inbound shipment, an inaccurate material record, a badly planned internal flow shows up as downtime, expedited freight, and idle labour. This Advanced Logistics & Material Management Training Course gives logistics, materials, and supply chain professionals a complete working method for both disciplines. Participants learn how to plan inbound and outbound flows, select carriers and modes, classify and control materials, set replenishment parameters, and measure performance end to end. Furthermore, the course connects logistics decisions to inventory levels, working capital, and service reliability.

Advanced Logistics & Material Management Course Objectives

- Map inbound, internal, and outbound logistics flows and identify cost drivers.
- Select transport modes and carriers against cost, transit time, and reliability.
- Plan freight consolidation, load building, and delivery scheduling.
- Apply Incoterms 2020 and customs documentation to inbound movements.
- Classify materials by ABC value, XYZ variability, and operational criticality.
- Calculate economic order quantity, safety stock, and reorder levels.
- Design receiving, inspection, put-away, issuing, and returns control.
- Manage warehouse and internal material flow with slotting and handling rules.
- Control logistics cost with freight audit, demurrage avoidance, and 3PL reviews.
- Measure performance using delivery reliability, stock accuracy, and cost per unit moved.

Course Methodology

- Facilitated sessions built on real shipment records, material data, and freight logs.

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- Case workshops on late inbound shipments, stockouts, and freight cost overruns.
- Spreadsheet drills on landed cost, replenishment parameters, and cost per unit.
- Logistics flow mapping and carrier selection exercises.
- Group exercise on an integrated logistics and materials improvement plan.

Who Should Take This Course

- Logistics and distribution managers and coordinators.
- Materials management and inventory control officers.
- Warehouse and stores supervisors.
- Procurement and purchasing staff handling inbound supply.
- Production and maintenance planners dependent on material availability.
- Finance and audit staff reviewing logistics cost and inventory value.

Advanced Logistics & Material Management Course Outlines

Day 1: Logistics Framework and Flow Design

- Logistics scope: inbound, internal, outbound, and reverse flows.
- Logistics cost drivers and total cost thinking.
- Network design basics: nodes, lanes, and service coverage.
- Inbound logistics planning and supplier delivery windows.
- Internal material flow and handling between processes.
- Outbound distribution and customer delivery requirements.
- Logistics service levels and reliability targets.

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Day 2: Transport, Freight, and Documentation

- Mode selection: road, sea, air, rail, and multimodal comparison.
- Carrier and 3PL selection criteria and performance measures.
- Freight rate structures, surcharges, and invoice auditing.
- Consolidation, groupage, and load building for cost control.
- Incoterms 2020 application in inbound and outbound movements.
- Customs documents, clearance steps, and demurrage avoidance.
- Cargo insurance, liability, and claims handling.

Day 3: Materials Classification and Control

- Material categories: raw materials, components, consumables, and spares.
- ABC classification by usage value and control level.
- XYZ classification by demand variability and predictability.
- Criticality classification linked to equipment and production impact.
- Master data standards: codes, descriptions, and units of measure.
- Substitution, standardisation, and variety reduction.
- Material requirement planning from bills of material.

Day 4: Replenishment, Receiving, and Warehouse Control

- Economic order quantity and supplier constraint handling.
- Safety stock and reorder point setting under variable demand and lead time.
- Min-max, periodic review, and consignment stock arrangements.
- Receiving, inspection, put-away, and discrepancy handling.

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- Issuing discipline, job-based consumption, and returns.
- Cycle counting, inventory accuracy, and adjustment governance.
- Surplus, obsolescence, and slow-moving material control.

Day 5: Cost, Performance, and Continuous Improvement

- Logistics cost structure and cost per unit moved or stored.
- KPIs: delivery reliability, stock accuracy, fill rate, and turnaround time.
- Supplier and carrier performance scorecards.
- 5S, standard work, and value stream mapping in logistics processes.
- Technology: TMS, WMS, barcode, and tracking systems.
- Risk management: disruption, single source, and seasonal peaks.
- Building an integrated logistics and materials roadmap.

Conclusion

By successfully completing the Advanced Logistics & Material Management Training Course, participants will have acquired a solid working knowledge of logistics flow design, transport and freight management, material classification and control, replenishment parameter setting, warehouse operations, cost control, and performance measurement. They will leave able to move materials reliably at a controlled cost, keep records that match reality, and coordinate logistics with procurement and inventory decisions. Gentex Training Center delivers this programme with logistics and materials practitioners who manage these operations daily.

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FAQs for the Advanced Logistics & Material Management course

Q1 What is the "Advanced Logistics & Material Management" course about?

It is a five-day programme on managing logistics flows and material control together. It covers inbound, internal and outbound flows, transport and freight management, material classification, replenishment setting, receiving and warehouse control, cost control, and performance measurement.

Q2 What are the key benefits of the "Advanced Logistics & Material Management" course?

Participants cut freight and handling cost through consolidation, mode choice, and invoice auditing, and reduce downtime by keeping critical materials available. They also gain delivery reliability and stock accuracy measures that make logistics performance visible to management.

Q3 What skills will I gain from the "Advanced Logistics & Material Management" course?

You will gain logistics flow design and cost analysis, transport, freight, and documentation management, material classification and replenishment control, and warehouse receiving, accuracy, and logistics performance management.

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

The course works with logistics cost driver analysis, mode selection across road, sea, air and rail, carrier and 3PL selection criteria and scorecards, freight rate and surcharge structures with invoice audit, consolidation and load building methods, Incoterms 2020 rules with customs documentation and demurrage avoidance, ABC, XYZ and criticality classification matrices, material master data standards, material requirement planning from bills of material, economic order quantity and supplier constraint models, safety stock and reorder point formulas, min-max and periodic review systems, consignment stock arrangements, cycle counting with tolerance thresholds, ageing and obsolescence analysis, 5S and value stream mapping, TMS, WMS and barcode tracking systems, and logistics KPIs including delivery reliability, stock accuracy and cost per unit moved.

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

Teams apply it when planning an inbound delivery schedule, reviewing a freight invoice, selecting a carrier for a new lane, setting reorder levels for a critical component, running cycle counts, and preparing logistics KPI reports. It also guides consignment stock negotiations and 3PL performance reviews.