



Optimizing Medical Logistics & Inventory in Health Facilities

30 November – 11 December 2026
Paris (France)



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Introduction:

Optimizing logistics and inventory in health facilities is critical to ensuring timely and efficient healthcare delivery. This Optimizing Medical Logistics and Inventory in Health Facilities course equips participants with the essential tools, strategies, and operational best practices for managing medical logistics effectively. In today's healthcare systems, the demand for lean inventory, accurate forecasting, and real-time supply visibility is higher than ever.

Participants will explore practical solutions for reducing waste, avoiding stockouts, and enhancing supply chain resilience. The Optimizing Medical Logistics and Inventory in Health Facilities program covers the full spectrum of medical logistics — from procurement planning to last-mile distribution. It addresses the integration of digital tools and automation for smarter inventory management. They will develop actionable skills to align medical logistics systems with organizational goals and patient care standards.

Targeted Groups:

This Optimizing Medical Logistics and Inventory in Health Facilities training targets professionals seeking specialized knowledge and skills:

- Healthcare supply chain managers.
- Hospital logistics coordinators.
- Inventory and warehouse officers in health facilities.
- Procurement officers in medical institutions.
- Medical operations managers.
- Public health logistics advisors.
- Pharmacists handling inventory and procurement.
- Emergency and humanitarian logistics professionals.
- Biomedical engineers involved in equipment supply.
- Professionals in donor-funded health supply programs.

Targeted Competencies:

Participants will gain the following competencies during the Optimizing Medical Logistics and Inventory in Health Facilities program:

- Strategic planning for health logistics systems.
- Operational control of healthcare inventory.
- Data-driven decision-making for stock management.
- Application of inventory classification techniques.
- Cross-functional communication within logistics units.
- Evaluation of supplier performance and reliability.
- Budgeting and cost control for medical supply chains.
- Use of software tools for real-time inventory tracking.
- Adaptability in emergency and humanitarian logistics.
- Compliance with global health logistics standards.

Course Objectives:

Participants will achieve the following objectives by the Optimizing Medical Logistics and Inventory in Health Facilities course:

- Understand the role of logistics in healthcare service delivery.
- Identify key components of medical supply chains.
- Apply techniques for demand forecasting and planning.
- Optimize procurement and inventory control processes.
- Analyze performance indicators for medical logistics.
- Design inventory systems that reduce stockouts and overstock.
- Integrate digital tools into inventory management systems.
- Develop emergency logistics response plans.
- Streamline medical warehouse operations.
- Evaluate logistics cost efficiency and resource utilization.
- Implement regulatory compliance and quality assurance practices.
- Coordinate last-mile delivery strategies in healthcare.
- Improve communication across logistics stakeholders.
- Apply risk management techniques in medical supply chains.
- Enhance data visibility for informed logistics decisions.

Course Content:

Unit 1: Introduction to Medical Logistics in Health Facilities:

- Define medical logistics and its importance.
- Overview of healthcare supply chain models.
- Challenges specific to health facility logistics.
- Stakeholder roles in logistics operations.
- Overview of healthcare inventory types.
- Basic logistics terminology and workflows.
- Introduction to key regulatory frameworks.

Unit 2: Forecasting and Demand Planning:

- Define demand forecasting in medical settings.
- Techniques for predicting usage rates.
- Use of consumption data for planning.
- Aligning procurement with disease trends.
- Managing seasonal and emergency demands.
- Reducing forecast errors and variability.
- Developing demand-driven supply systems.
- Forecasting tools and their applications.

Unit 3: Procurement and Vendor Management:

- Strategic sourcing for health products.
- Developing supplier selection criteria.
- Tendering and contract management.
- Managing procurement timelines.
- Ensuring quality in procurement processes.
- Coordinating procurement with budget cycles.
- Legal and compliance considerations in sourcing.
- Building relationships with reliable suppliers.
- Tracking vendor performance KPIs.

Unit 4: Inventory Classification and Optimization:

- ABC and XYZ inventory classification.
- Safety stock calculations.
- Setting reorder points and quantities.
- Stock rotation and FEFO/LIFO/LEFO principles.
- Balancing inventory levels and storage costs.
- Inventory turnover and service level metrics.
- Identifying and handling slow-moving items.
- Automating replenishment cycles.

Unit 5: Warehouse Design and Storage Practices:

- Principles of medical warehouse layout.
- Storage conditions for sensitive items.
- Cold chain logistics essentials.
- FIFO and batch control in storage.
- Warehouse zoning and labeling.
- Use of racking systems and equipment.
- Safety, hygiene, and regulatory compliance.
- Managing expired and obsolete items.
- Environmental controls and monitoring.

Unit 6: Digital Tools and Inventory Systems:

- Overview of inventory management systems.
- Introduction to ERP and WMS platforms.
- Barcoding and RFID in health logistics.
- Real-time stock visibility dashboards.
- Integration with procurement systems.
- Data reporting and analytics features.
- Mobile solutions for inventory tracking.
- Cloud-based solutions and cybersecurity.
- Leveraging AI and automation in logistics.

Unit 7: Distribution and Last-Mile Delivery:

- Designing efficient distribution routes.
- Coordinating deliveries with health programs.
- Cold chain transportation methods.
- Tracking shipments in real time.
- Managing returns and reverse logistics.
- Handling delivery delays and disruptions.
- Fleet management best practices.
- Community-level logistics coordination.

Unit 8: Performance Monitoring and KPIs:

- Setting performance metrics in logistics.
- Inventory accuracy and cycle counting.
- Analyzing stockout and overstock rates.
- Lead time analysis and fulfillment rates.
- Service level agreements SLAs.
- Benchmarking logistics performance.
- Using dashboards for continuous monitoring.
- Developing corrective action plans.

Unit 9: Risk Management and Emergency Planning:

- Identifying logistics risks and vulnerabilities.
- Mitigation plans for stockouts and surges.
- Emergency procurement procedures.
- Crisis communication during supply disruptions.
- Stockpiling and buffer strategies.
- Coordination with public health agencies.
- Logistics contingency planning.
- Supply chain resilience frameworks.

Unit 10: Compliance, Ethics, and Sustainability:

- Regulatory frameworks in healthcare logistics.
- Ethics in medical procurement and distribution.
- Anti-corruption practices and controls.
- Documentation and audit readiness.
- Sustainable packaging and transport solutions.
- Waste reduction in medical inventory.
- Promoting environmental responsibility.
- Alignment with global health sustainability goals.
- Future trends in ethical logistics.



Final Insights & Key Takeaways:

Optimizing medical logistics and inventory enhances healthcare efficiency, reduces operational risks, and directly improves patient outcomes. This Optimizing Medical Logistics and Inventory in Health Facilities course delivers practical tools for real-world logistics challenges in health settings. Participants will leave with strong capabilities in demand planning, inventory control, and digital system integration. Effective logistics transforms healthcare delivery—and this course provides the roadmap to achieve it.