MERCURY

Vaccine Storage, Handling, and Wastage Training

28 December 2026 – 1 January 2027
Rome (Italy)



Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

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Ref: 15664_1081355 **Date:** 28 December 2026 – 1 January 2027 **Location:** Rome (Italy) **Fees:** 6200 Euro

Introduction:

Effective vaccine storage, handling, and wastage management are components of immunization programs worldwide. Proper storage and handling ensure that vaccines maintain their potency and efficacy, ultimately protecting individuals and communities from vaccine-preventable diseases. Mismanagement in these areas can lead to significant vaccine wastage, undermining public health efforts and wasting valuable resources.

This Vaccine Storage, Handling, and Wastage course provides knowledge and practical skills for healthcare professionals involved in vaccine administration. It focuses on the best vaccine storage and handling practices and strategies to minimize waste. Participants will gain insights into cold chain management principles, learn about the latest guidelines and standards, and understand the impact of proper vaccine management on public health outcomes.

This Vaccine Storage, Handling, and Wastage course combines theoretical knowledge with practical exercises to equip healthcare providers with the tools and techniques to ensure the highest standards of vaccine management. It contributes to the success of immunization programs and safeguards public health. Understanding the normal temperature for vaccine storage is one of the most fundamental elements of proper vaccine management.

Consistent maintenance of recommended vaccine storage temperatures is vital to vaccine efficacy. Participants in this Vaccine Storage, Handling, and Wastage training will learn to accurately monitor and document these temperatures using various temperature monitoring devices and systems tailored to various storage units, whether refrigerators, freezers, or specialized cold storage solutions.

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Targeted Groups:

- Healthcare Providers.
- Vaccine Coordinators.
- Immunization Program Managers.
- Public Health Officials.
- Pharmacists.
- Nursing Staff.
- Medical Assistants.
- Cold Chain Logistics Personnel.
- Healthcare Facility Administrators.
- Epidemiologists.
- Clinic and Hospital Staff.
- Community Health Workers.
- Laboratory Technicians.
- Vaccine Manufacturers.
- Supply Chain Managers.
- Health Educators.
- Policy Makers.
- Quality Assurance Personnel.
- Biomedical Engineers.
- Emergency Response Teams.
- School Nurses.
- Occupational Health Professionals.

Course Objectives:

At the end of this Vaccine Storage, Handling, and Wastage course, the participants will be able to:

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- Understand the principles of cold chain management.
- Learn proper temperature monitoring techniques.
- Implement effective vaccine inventory control methods.
- Identify and mitigate risks associated with vaccine storage and handling.
- Ensure compliance with regulatory standards and guidelines.
- Develop skills for accurate data recording and reporting.
- Prepare for emergencies affecting vaccine storage.
- Maintain and troubleshoot storage equipment.
- Follow best practices for vaccine transportation.
- Apply proper waste disposal procedures for vaccines.
- Conduct quality assurance checks regularly.
- Train and supervise staff on vaccine management protocols.
- Implement and enforce relevant policies.
- Respond effectively to incidents and deviations.
- Maintain detailed and accurate records.
- Communicate effectively within the healthcare team.
- Enhance problem-solving and decision-making abilities.
- Pay attention to detail in all aspects of vaccine management.
- Manage time efficiently to ensure proper vaccine handling.

Targeted Competencies:

By the end of this Vaccine Storage, Handling, and Wastage training, participants' competencies will:

- Cold Chain Management.
- Temperature Monitoring.
- Vaccine Inventory Control.
- Risk Management.
- Regulatory Compliance.
- Data Recording and Reporting.
- Emergency Preparedness.
- Storage Equipment Maintenance.
- Transportation Protocols.
- Waste Disposal Procedures.
- Quality Assurance.
- Staff Training and Supervision.
- Policy Implementation.
- Incident Response.
- Record Keeping.
- Communication Skills.
- Problem-Solving Skills.
- Decision-Making Skills.
- Attention to Detail.
- Time Management.

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Course Content:

Unit 1: Principles of Vaccine Storage:

- Understand the cold chain and its importance.
- Identify appropriate storage temperatures for various vaccines.
- Learn about different types of storage equipment.
- Ensure proper placement and organization within storage units.
- Recognize signs of compromised vaccine potency due to temperature fluctuations.
- Implement temperature monitoring devices and systems.
- Conduct routine maintenance and calibration of storage equipment.

Unit 2: Vaccine Handling Procedures:

- Develop standard operating procedures for vaccine handling.
- Train staff on proper vaccine handling techniques.
- Understand the impact of light exposure on vaccine potency.
- Utilize appropriate containers for transporting vaccines.
- Practice proper thawing techniques for frozen vaccines.
- Ensure vaccines are handled with clean, sanitized hands or gloves.
- Avoid unnecessary exposure to room temperature during handling.

Unit 3: Inventory Management and Record Keeping:

- Implement effective inventory control methods.
- Track vaccine usage and expiry dates.
- Maintain accurate records of vaccine receipts and issues.
- Use inventory management software for efficient tracking.
- Conduct regular stock checks and reconciliations.
- Ensure timely reordering of vaccines to prevent stockouts.
- Dispose of expired or compromised vaccines properly.

Unit 4: Risk Management and Emergency Preparedness:

- Identify potential risks in vaccine storage and handling.
- Develop risk mitigation strategies.
- Create an emergency response plan for storage equipment failures.
- Train staff on emergency procedures and drills.
- Establish backup storage solutions for power outages.
- Maintain a contact list of emergency service providers.
- Review and update emergency plans regularly.

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Unit 5: Waste Management and Regulatory Compliance:

- Understand regulations governing vaccine storage and handling.
- Ensure compliance with local, national, and international guidelines.
- Develop procedures for the safe disposal of vaccine waste.
- Train staff on waste management protocols.
- Implement a documentation system for waste disposal.
- Conduct regular audits to ensure compliance.
- Stay updated on changes in regulations and guidelines.