



# **Advanced Vaccine Cold Chain and Waste Management Training Course**

17 – 21 January 2027  
Muscat

## Advanced Vaccine Cold Chain and Waste Management Training Course

**Ref:** 1403\_203641 **Date:** 17 – 21 January 2027 **Location:** Muscat **Fees:** 5700 Euro

### Overview

Advanced Vaccine Cold Chain and Waste Management Training Course is a one-week course for vaccine coordinators, pharmacists, quality teams, and healthcare operations leaders who leave with a Vaccine Cold Chain Control File. Participants connect vaccine storage and handling, digital data logger review, temperature excursion management, inventory control, emergency transport, and vaccination waste segregation through decisions, records, and escalation paths. The course treats vaccine cold chain governance as an auditable operational system. Agile Leaders Training Center presents vaccine cold chain and waste management as a coordinated quality responsibility.

### Who Should Attend

- Functions responsible for vaccine receipt, storage, and distribution
- Teams monitoring storage temperatures and equipment performance
- Functions governing pharmacy and immunization inventory
- Quality teams reviewing deviations, records, and corrective actions
- Healthcare operations teams coordinating contingency response
- Functions supervising clinical waste and sharps controls

The course assumes participants already support vaccine, pharmacy, quality, clinical, logistics, or waste operations and leaves out clinical prescribing, product selection, and jurisdiction-specific legal advice.

### Departments and Industries

The course supports departments and industries that protect vaccine quality and control vaccination waste.

- Hospitals, clinics, pharmacies, and vaccination services
- Public health, occupational health, and humanitarian operations
- Healthcare supply chains, distributors, and medical logistics
- Pharmacy, nursing, quality, and infection-control departments
- Facilities, transport, procurement, and warehouse teams
- Environmental services and clinical waste functions

### Learning Objectives

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



- Analyze vaccine cold chain roles, risks, and control points
- Apply storage-unit and digital data logger controls
- Diagnose temperature excursions using a structured decision pathway
- Build inventory, expiry, and beyond-use controls
- Evaluate transport, contingency, and waste segregation arrangements
- Prioritize corrective actions and auditable records

## **Course Agenda**

### **Day 1: Cold Chain Governance and Control**

- Vaccine Cold Chain Process Map
- Primary and Alternate Coordinator Responsibility Matrix
- Routine and Emergency SOP Architecture
- Storage Risk and Control Register
- Staff Competency and Training Record

### **Day 2: Storage and Temperature Assurance**

- Purpose-Built Storage Unit Assessment
- Digital Data Logger Configuration Checklist
- Calibration and Backup Device Control
- Temperature Record Review Method
- Storage Layout and Airflow Control Map

### **Day 3: Inventory and Excursion Decisions**

- Receipt and Stock Reconciliation Log
- First-Expiry-First-Out Rotation Method
- Expiration and Beyond-Use Date Tracker
- Temperature Excursion Quarantine Pathway
- Manufacturer and Program Consultation Record

### **Day 4: Transport and Waste Management**

- Routine and Emergency Transport Plan
- Conditioned Container Packing Protocol
- Vaccine Return and Disposition Decision Tree
- Vaccination Waste Segregation Matrix
- Sharps Container and Temporary Storage Controls



## Day 5: Cold Chain Control Practice

- Exercise: Interpret Digital Data Logger Evidence
- Exercise: Triage a Temperature Excursion
- Exercise: Reconcile Expiry and Beyond-Use Records
- Exercise: Test Waste Segregation and Transport Controls
- Capstone Exercise: Vaccine Cold Chain Control File

## Practical Exercises

The course uses suggested activities from clinical, pharmacy, logistics, and vaccination-service settings.

- Suggested activity: map handoffs, owners, records, risks, and escalation points from receipt through administration or disposition.
- Suggested activity: examine logger evidence, isolate affected stock, record facts, and prepare a consultation package without making unsupported usability decisions.
- Suggested activity: reconcile physical stock with expiry, beyond-use, return, loss, and waste records.
- Suggested activity: assemble SOPs, controls, evidence, findings, and corrective actions in the capstone file.

## FAQs

### Who suits advanced vaccine cold chain training, and what does it assume?

Advanced vaccine cold chain training suits personnel who already manage vaccine, pharmacy, quality, logistics, clinical, or waste processes and need to integrate controls, evidence, decisions, and escalation.

### How does vaccine cold chain and waste management differ from introductory vaccine handling training?

Vaccine cold chain and waste management emphasizes governance, data interpretation, excursions, inventory reconciliation, transport contingencies, waste streams, and auditable action rather than basic storage awareness.

### What should happen after a vaccine temperature excursion?

A vaccine temperature excursion requires affected stock to be identified, separated, labeled against use, documented, and assessed through the applicable immunization-program and manufacturer consultation process before disposition.

### How should expired or compromised vaccines be managed?

Expired or compromised vaccines should be removed from usable stock, recorded, and handled through applicable return or disposal routes based on product guidance and local requirements.



## **Why is vaccination waste segregation important?**

Vaccination waste segregation separates sharps, vials, clinical materials, and general waste so each stream can be contained, recorded, transported, and treated through its applicable route.

## **Conclusion**

The course connects vaccine storage and handling with monitoring, excursion decisions, inventory, transport, waste control, and evidence. Participants take back a Vaccine Cold Chain Control File containing SOP, role, logger, inventory, excursion, transport, waste, and action records. The file helps teams protect vaccine quality, trace decisions, and coordinate corrective work across operational boundaries.