



Chain of Infection and Healthcare Transmission Training Course

5 – 9 September 2027
Muscat

Chain of Infection and Healthcare Transmission Training Course

Ref: 1427_205333 **Date:** 5 – 9 September 2027 **Location:** Muscat **Fees:** 5700 Euro

Overview

Chain of Infection and Healthcare Transmission Training Course is a one-week intermediate course for healthcare professionals, infection prevention teams, clinical educators, patient-safety staff, and healthcare managers who leave with a Transmission Interruption Control Map. Participants connect the six-link chain of infection, healthcare transmission dynamics, exposure risk assessment, standard precautions, transmission-based precautions, and outbreak pathway analysis. Agile Leaders Training Center presents healthcare transmission through applied mapping and control decisions.

Who Should Attend

- Clinical care functions responsible for preventing exposure during patient care and procedures
- Infection prevention functions responsible for transmission assessment, guidance, and monitoring
- Clinical education functions responsible for precaution training and competency reinforcement
- Patient-safety and quality functions responsible for event analysis and corrective action
- Healthcare management functions responsible for resources, escalation, and control assurance

The course assumes participants support healthcare delivery or infection-prevention work and leaves out diagnosis, prescribing, and organism-specific treatment.

Departments and Industries

The course supports departments and industries that manage infection transmission risks.

- Hospitals, ambulatory care, and diagnostic services
- Long-term care, rehabilitation, and home-care providers
- Nursing, emergency, surgical, and critical-care departments
- Infection prevention, quality, risk, and patient-safety teams
- Clinical education, occupational health, and healthcare operations functions

Learning Objectives

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

- Apply the six-link chain of infection to healthcare scenarios
- Analyze reservoirs, portals, hosts, and transmission routes
- Use exposure risk assessment to select precautions
- Compare contact, droplet, and airborne control decisions
- Build outbreak transmission pathway maps



- Evaluate a transmission interruption control plan

Course Agenda

Day 1: Six-Link Infection Chain

- Infectious Agent Characteristic Profile
- Reservoir and Source Identification Map
- Portal of Exit Assessment Checklist
- Transmission Route Classification Matrix
- Portal of Entry and Susceptible Host Map

Day 2: Healthcare Transmission Pathways

- Direct and Indirect Contact Pathway Diagram
- Droplet Exposure Zone Assessment
- Airborne Transmission Pathway Map
- Environmental and Equipment Fomite Trace
- Procedure-Related Exposure Sequence

Day 3: Precaution Selection and Controls

- Standard Precautions Risk Assessment Tool
- Contact Precautions Selection Guide
- Droplet Precautions Decision Checklist
- Airborne Precautions Decision Pathway
- Combined Transmission Route Control Matrix

Day 4: Exposure and Outbreak Analysis

- Healthcare Exposure Mapping Template
- Transmission Event Timeline Method
- Source-Host Link Analysis Worksheet
- Control Failure and Barrier Review
- Outbreak Communication and Escalation Map

Day 5: Transmission Interruption Practice

- Exercise: Map a Six-Link Infection Chain
- Exercise: Classify Healthcare Transmission Routes
- Exercise: Select Standard and Additional Precautions
- Exercise: Diagnose Outbreak Pathway Breakdowns
- Capstone Exercise: Transmission Interruption Control Map



Practical Exercises

The course uses suggested activities drawn from acute care, ambulatory services, and long-term care.

- Suggested activity: map agents, reservoirs, portals, routes, and susceptible hosts in a healthcare exposure scenario.
- Suggested activity: compare contact, droplet, airborne, and combined-route precaution decisions.
- Suggested activity: trace an outbreak timeline and identify control failures and escalation points.
- Suggested activity: build a Transmission Interruption Control Map with owners, barriers, and monitoring actions.

FAQs

Who suits a chain of infection course, and what does it assume?

A chain of infection course suits healthcare, infection prevention, education, safety, quality, and management teams that assess transmission risks. It assumes workplace familiarity with healthcare processes but does not require authority to diagnose or prescribe.

How does chain of infection training differ from a general infection prevention course?

Chain of infection training concentrates on agents, reservoirs, portals, routes, hosts, exposure mapping, and interruption decisions. General infection prevention training covers a wider range of operational practices, governance, surveillance, and service-specific controls.

What are the links in the chain of infection?

The chain of infection links an infectious agent, reservoir or source, portal of exit, mode of transmission, portal of entry, and susceptible host. Interrupting a link can reduce transmission risk.

How do transmission-based precautions relate to healthcare transmission dynamics?

Transmission-based precautions add route-specific controls for contact, droplet, or airborne spread when standard precautions alone do not fully interrupt the pathway.

Why is exposure mapping useful in breaking the chain of infection?

Exposure mapping makes sources, movements, contacts, environments, barriers, and susceptible hosts visible so teams can locate where a pathway may be interrupted.



Conclusion

The course links the six infection-chain elements with transmission routes, precautions, exposure mapping, and outbreak analysis. Participants take back a Transmission Interruption Control Map. The map makes sources, pathways, barriers, responsibilities, and monitoring actions visible for clinical and management teams.