Fire Detection and Alarm Systems Lifecycle Assurance Training Course

5 – 9 July 2027
Addis Ababa

AGILE LEADERS
Training Center

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Ref: 1331_224494 **Date:** 5 – 9 July 2027 **Location:** Addis Ababa **Fees:** 4500 Euro

Overview

Fire Detection and Alarm Systems Lifecycle Assurance Training Course is a one-week advanced course for fire safety, facilities, maintenance, commissioning, and technical personnel who leave with a Fire Alarm Lifecycle Assurance File. Participants connect design intent, device and circuit interfaces, cause-and-effect logic, acceptance, testing, maintenance, impairments, unwanted alarms, and records into one governance method. Agile Leaders Training Center presents fire detection and alarm systems lifecycle assurance as an operational reliability discipline.

Who Should Attend

- Functions responsible for fire detection and alarm system governance
- Teams responsible for facility fire-safety engineering and technical interfaces
- Functions responsible for inspection, testing, maintenance, and defect closeout
- Personnel responsible for commissioning, acceptance, and handover evidence
- Supervisors responsible for impairments, contractors, and operational readiness

The course assumes participants already oversee fire-safety systems, facilities, maintenance, commissioning, or technical assurance, and it leaves out introductory fire safety, manufacturer-specific programming, and product certification.

Departments and Industries

The course supports departments and industries that depend on reliable fire detection and alarm system performance.

- Facilities, engineering, maintenance, and reliability departments
- Fire safety, occupational safety, and emergency-management functions
- Commercial buildings, hospitality, healthcare, and education facilities
- Manufacturing, warehousing, logistics, and energy operations
- Capital projects, commissioning, contractor, and asset-management teams

Learning Objectives

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

- Analyze fire detection and alarm system design intent
- Evaluate device, circuit, and emergency-control interfaces
- Build acceptance and cause-and-effect verification controls
- Apply inspection, testing, and maintenance governance
- Diagnose impairments, defects, and unwanted alarm patterns
- Design auditable lifecycle assurance and performance reviews

Course Agenda

Day 1: System Assurance Foundations

- Fire Detection and Alarm System Lifecycle Map
- Design Intent and Performance Requirement Register
- Detection, Notification and Control Function Architecture
- Device, Circuit and Power-Supply Interface Matrix
- System Records and Accountability Framework

Day 2: Logic and Interface Verification

- Cause-and-Effect Matrix Review Method
- Alarm Zoning and Signal Path Verification Map
- Emergency-Control Function Interface Checklist
- Alarm Verification and Supervisory Signal Logic Review
- Change-Control Impact Assessment Template

Day 3: Acceptance and Handover

- Acceptance Test Plan and Witnessing Protocol
- Device Sampling and Functional Test Schedule
- Interface Test Script and Evidence Pack
- Defect Classification and Closeout Tracker
- Commissioning Handover Readiness Gate

Day 4: Operational Reliability

- Inspection, Testing and Maintenance Control Plan
- Impairment Authorization and Restoration Procedure
- Unwanted Alarm Investigation Method
- Contractor Competence and Service Record Audit
- Lifecycle Performance Indicator Dashboard

Day 5: Lifecycle Assurance Practice

- Exercise: Design Intent and Architecture Diagnosis
- Exercise: Cause-and-Effect Interface Challenge
- Exercise: Acceptance Evidence Review
- Exercise: Impairment and Unwanted Alarm Response
- Capstone Exercise: Fire Alarm Lifecycle Assurance File

Practical Exercises

The course uses suggested activities drawn from commercial buildings, healthcare facilities, manufacturing sites, and warehouses.

- Suggested activity: trace detectors, circuits, notification devices, and emergency-control interfaces against design intent.
- Suggested activity: witness a simulated acceptance sequence and identify missing evidence, failed logic, and closeout actions.
- Suggested activity: investigate an impairment and recurring unwanted alarms using records, fault patterns, and accountability controls.
- Suggested activity: assemble a lifecycle assurance file linking requirements, tests, defects, maintenance, and performance review.

FAQs

What is fire detection and alarm systems lifecycle assurance?

Fire detection and alarm systems lifecycle assurance connects design intent, interfaces, acceptance, inspection, testing, maintenance, impairment control, records, and performance review so system readiness remains demonstrable.

Who suits fire detection and alarm systems training, and what does it assume?

Fire detection and alarm systems training suits experienced fire safety, facilities, maintenance, commissioning, and technical personnel who already oversee system performance or assurance.

How does fire alarm lifecycle assurance differ from installation and programming training?

Fire alarm lifecycle assurance governs requirements, evidence, interfaces, acceptance, maintenance, impairments, and performance. Installation and programming training develops product-specific configuration and field installation skills.

How should a cause-and-effect matrix be assured?

A cause-and-effect matrix should be traced from design intent through input events, outputs, interfaces, test scripts, witnessed results, defects, approved changes, and retained evidence.

How can unwanted fire alarms be reduced?

Unwanted fire alarms can be reduced by classifying events, analyzing recurring patterns, checking environment and device suitability, verifying maintenance quality, controlling changes, and tracking corrective actions.

Conclusion

The course integrates design intent, architecture, logic, interfaces, acceptance, maintenance, impairments, unwanted alarms, and performance evidence. Participants take back a Fire Alarm Lifecycle Assurance File containing registers, matrices, test controls, records, and review tools. The file changes how their organizations demonstrate and improve fire detection and alarm system reliability.