



Healthcare AI System Design and Assurance Course

1 – 5 February 2027
Seoul

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Ref: 289_124632 **Date:** 1 – 5 February 2027 **Location:** Seoul **Fees:** 10000 Euro

Overview

Healthcare AI System Design and Assurance Course is a five-day foundation course for healthcare transformation teams, clinical operations leaders, health informatics specialists, patient-safety contributors, and solution designers, who leave with a Healthcare AI System Design and Assurance Pack. Participants select use cases, map workflows, assess data readiness and interoperability, define human oversight, protect privacy, validate safety and performance, plan integration, monitor behavior, and manage incidents and change. Agile Leaders Training Center provides training in healthcare AI system design and assurance.

Who Should Attend

- Healthcare transformation teams responsible for service and technology change
- Clinical operations teams responsible for workflow and care delivery
- Health informatics teams responsible for data and interoperability
- Quality and patient-safety teams responsible for assurance and oversight
- Solution teams responsible for integration, validation, and monitoring

The course assumes participants contribute to healthcare workflows, data, quality, or technology decisions and leaves out clinical diagnosis training, medical-device certification, advanced model development, coding, and vendor-product administration.

Departments and Industries

The course supports controlled healthcare AI system design across provider and health-service environments.

- Clinical operations, nursing operations, and care coordination
- Health informatics, data, integration, and digital-health functions
- Quality, patient safety, privacy, risk, and governance teams
- Hospitals, clinics, diagnostic services, and ambulatory networks
- Health insurers, public-health services, and care-support organizations

Learning Objectives

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



- Analyze clinical and operational use cases for AI suitability
- Build workflow, stakeholder, and human-oversight maps
- Evaluate data readiness, quality, and interoperability
- Apply patient-safety, privacy, and governance controls
- Compare validation, integration, and deployment choices
- Use monitoring evidence to manage incidents and lifecycle change

Course Agenda

Day 1: Healthcare Use Cases and Workflows

- Healthcare AI Use-Case Suitability Canvas
- Clinical and Operational Outcome Map
- Current-State Workflow and Decision Diagram
- Stakeholder Impact and Responsibility Matrix
- Healthcare AI System Purpose Brief

Day 2: Data Readiness and Interoperability

- Healthcare Data Source Inventory
- Data Quality and Fitness Assessment
- HL7 FHIR Interoperability Flow Map
- Privacy and Minimum-Necessary Data Matrix
- Data Lineage and Access Control Register

Day 3: Oversight, Safety, and Validation

- Human Oversight and Escalation Gate Design
- Patient Safety Hazard and Control Register
- WHO AI for Health Ethics Checklist
- Validation Dataset and Acceptance Criteria Sheet
- Performance, Bias, and Failure Test Matrix

Day 4: Integration and Lifecycle Governance

- Healthcare System Integration Boundary Diagram
- NIST AI RMF Lifecycle Control Map
- Deployment Readiness and Change Gate Checklist
- Operational Monitoring and Drift Dashboard
- AI Incident Triage and Response Playbook



Day 5: Healthcare AI Assurance Practice

- Suggested Exercise: Assess Use Cases and Map Workflows
- Suggested Exercise: Evaluate Data and Interoperability Readiness
- Suggested Exercise: Design Oversight, Safety, and Validation Controls
- Suggested Exercise: Plan Integration, Monitoring, and Incident Response
- Capstone Exercise: Healthcare AI System Design and Assurance Pack

Practical Exercises

The course uses suggested activities to convert healthcare needs into controlled and reviewable AI system designs.

- Suggested activity: assess use cases, outcomes, workflows, decisions, stakeholders, and responsibilities
- Suggested activity: inventory data, evaluate quality, map interoperability, privacy, lineage, and access
- Suggested activity: design human oversight, patient-safety controls, validation criteria, and failure tests
- Suggested activity: plan integration, lifecycle gates, monitoring, incidents, and assemble the assurance pack

FAQs

Who suits healthcare AI system design and assurance training?

Healthcare AI system training suits transformation, operations, informatics, quality, patient-safety, and solution contributors who support provider decisions. It assumes healthcare workflow or technology experience, not coding or clinical-diagnosis training.

How does healthcare AI system design differ from clinical AI model development training?

Healthcare AI system design focuses on use cases, workflows, data readiness, interoperability, oversight, safety, validation, integration, monitoring, and governance. Model development training focuses on algorithms, feature engineering, coding, model optimization, and technical deployment.

How should healthcare providers select AI use cases?

Healthcare providers should examine the intended outcome, workflow, affected decisions, evidence, data fitness, human oversight, patient-safety exposure, privacy, integration dependencies, alternatives, measurable benefit, and failure consequences.

What belongs in healthcare AI validation?

Healthcare AI validation includes intended-use criteria, representative data, expected performance, subgroup checks, workflow testing, human-oversight paths, safety hazards, privacy controls, failure cases, acceptance thresholds, traceability, and review ownership.

How should healthcare AI systems be monitored after integration?

Healthcare AI systems should be monitored for data and workflow change, performance, subgroup effects, overrides, escalations, safety events, privacy issues, system failures, user feedback, drift, incidents, and decisions to continue, change, or suspend use.

Conclusion

Participants take back a Healthcare AI System Design and Assurance Pack connecting use cases, workflows, data, interoperability, oversight, safety, privacy, validation, integration, monitoring, incidents, and governance. The pack makes assumptions, responsibilities, evidence, and controls visible across clinical, operational, and technical teams. It supports structured review before and after healthcare AI integration.