
Health Information Systems Leadership: EHR, Interoperability and Data Governance Course

18 – 22 October 2027
Amsterdam





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Programme Summary

Health information systems leadership is a five-day training course for hospital and health-system executives at strategic level, culminating in a clinical systems governance roadmap for their organisation. EHR platforms absorb large capital budgets, yet many organisations struggle to turn go-live into safer care and connected services. The approach treats EHR, interoperability and data governance as one executive agenda, examined through maturity diagnostics, design exercises and peer review. Mars Training Centre UK delivers this programme in health information systems leadership.

The Business Case

Clinical systems shape how quickly clinicians find information and how securely patient data moves between providers and payers. When ownership sits only with IT, investment drifts towards features rather than outcomes. Executives who govern the portfolio and track benefits turn digital spending into clinical and operational gains.

- Clinical Safety and Care Quality: Improve when clinicians and executives jointly govern decision support and alerts.
- Cost of Digital Ownership: Falls when selection, optimisation and contracts follow one portfolio plan.
- Data Breach and Privacy Exposure: Reduces when data roles, access controls and audit trails are clearly assigned.

Principles and Evidence Base

- HIMSS Electronic Medical Record Adoption Model EMRAM: Provides the maturity lens used to diagnose EHR capability in Session 1 and set targets in Session 5.
- HL7 FHIR: Frames the interoperability and API strategy in Session 3.
- ISO 27799 Health Informatics Information Security Management: Guides privacy and security controls for patient data in Session 4.
- Benefits Realisation Management: Links each clinical system investment to owners, measures and review points in Sessions 2 and 5.

Intended Participants

- Executives accountable for the hospital or health-system digital strategy and budget.
- Leaders who chair clinical systems or data governance committees.
- Senior clinicians who bridge medical practice and EHR design as chief medical or nursing information officers.
- Directors responsible for health information management, records and coding services.



The programme serves public and private hospitals, health insurers, primary care networks and health ministries.

Learning Outcomes

1. Participants will be able to diagnose the digital maturity of their organisation against a recognised EHR adoption model.
2. Participants will be able to evaluate EHR options using clinical, technical and commercial criteria.
3. Participants will be able to construct an interoperability strategy for exchanging data with partners.
4. Participants will be able to design a health data governance structure covering quality, privacy and secondary use.
5. Participants will be able to prioritise clinical decision support and workflow optimisation by safety and value.
6. Participants will be able to justify a benefits realisation plan for the information systems portfolio to a board.

Programme Structure

Day 1: Health Information Systems and Digital Maturity

Where does the organisation stand today, and what does good look like?

- The Health Information Systems Landscape: EHR, PAS, LIS, RIS and PACS
- HIMSS EMRAM Stages and Maturity Criteria
- Digital Maturity Self-Assessment Tool
- Executive Roles: CIO, CMIO, CNIO and HIM Director
- Case Lessons From Large-Scale EHR Implementations

Day 2: EHR Selection, Contracting and Optimisation

How are clinical systems chosen, contracted and improved after go-live?

- Requirements Definition With Clinical Stakeholders
- Vendor Evaluation Scorecard and Total Cost of Ownership
- Contract Terms, Service Levels and Exit Provisions
- Post-Go-Live Optimisation and Usability Reviews
- Clinician Adoption and Change Leadership

Day 3: Interoperability and Health Information Exchange

How does patient data move safely between systems and organisations?



- HL7 FHIR Resources and API-Based Integration
- Terminology Standards and Master Patient Index
- Connecting Payers, Laboratories and Health Information Exchanges
- Integration Architecture and Interface Governance
- Interoperability Readiness Checklist

Day 4: Health Data Governance, Privacy and Decision Support

Who owns clinical data, and how is it protected and put to use?

- Data Ownership, Stewardship and Quality Controls
- ISO 27799 Security Controls for Patient Data
- Access Management, Audit Trails and Consent
- Clinical Decision Support Design and Alert Fatigue
- Secondary Use of Data for Analytics and Research

Day 5: Applying Health Information Systems Governance

How are the diagnostics and designs combined into one executive roadmap?

- Applying the Maturity Assessment to a Participant Organisation
- Prioritising the Optimisation and Integration Backlog
- Benefits Register and Board Reporting Measures
- Peer Challenge of Governance Structures
- Clinical Systems Governance Roadmap Presentation

Methodology

The programme relies on case analysis and structured diagnostics drawn from hospital, insurer and ministry settings. Participants apply maturity and governance tools to their own organisation, compare results with peers and refine designs through facilitated challenge, so each session ends with a decision they can take back to their executive team.

- Suggested activity: Scoring a hospital against EHR maturity criteria.
- Suggested activity: Evaluating two competing clinical system bids with a weighted scorecard.
- Suggested activity: Mapping referral data flows to locate privacy risks.

Capstone Output

Each participant completes a clinical systems governance roadmap. It contains a maturity baseline and target, a prioritised optimisation and integration backlog, a data governance structure with named roles, and a benefits register with board measures, ready for the executive committee.



Frequently Asked Questions

Is health information systems leadership suitable for executives without a technical background?

Yes. It is designed for hospital executives, senior clinicians and officials who govern digital investment. It assumes leadership experience but no programming knowledge.

Which frameworks underpin health information systems leadership in this programme?

It draws on the HIMSS EMRAM maturity model, HL7 FHIR for interoperability, ISO 27799 for health information security and benefits realisation management for investment tracking.

How is the health information systems governance roadmap used at work?

It becomes your organisation's plan for the next planning cycle, setting maturity targets, sequencing integration work and reporting benefits to the board.

How does health information systems leadership differ from a general digital transformation programme?

It concentrates on clinical systems, patient data and health information exchange, while general digital transformation programmes address technology change in any industry.