Electronic Health Systems (EHS) Training Course

Professional Development Training Course Outline

Category	Public Health	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Electronic Health Systems (EHS) Training Course is designed to equip healthcare professionals, IT specialists, and administrators with cutting-edge digital health, EHR (Electronic Health Records), EMR systems, interoperability frameworks, and health informatics competencies. As healthcare rapidly transforms through AI-powered healthcare systems, cloud-based hospital management systems, telemedicine integration, and digital patient data ecosystems, this training ensures participants gain hands-on expertise in managing secure, efficient, and compliant electronic health infrastructures. The course focuses on enhancing operational efficiency, data accuracy, patient safety, and regulatory compliance in modern healthcare environments.

With the rising global demand for digital healthcare transformation, HIPAA-compliant systems, HL7/FHIR interoperability standards, and AI-driven clinical decision support systems, this training bridges the gap between healthcare delivery and advanced technology. Participants will learn how to implement, manage, and optimize EHS platforms for hospitals, clinics, and public health institutions. The program emphasizes real-world applications, cybersecurity in healthcare data, cloud EHR deployment, and data-driven patient care strategies to prepare learners for future-ready healthcare ecosystems.

Programme Curriculum

Electronic Health Systems (EHS) Training Course

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Course Duration

5 days

Course Objectives

1. Master Electronic Health Records (EHR) management systems
2. Understand Health Information Systems (HIS) architecture
3. Implement FHIR and HL7 interoperability standards
4. Develop skills in digital healthcare transformation strategies
5. Apply clinical data analytics and healthcare big data tools
6. Ensure HIPAA and GDPR healthcare compliance
7. Operate cloud-based hospital management systems
8. Enhance knowledge of telemedicine and remote patient monitoring systems
9. Integrate AI-powered clinical decision support systems
10. Strengthen healthcare cybersecurity and data protection
11. Optimize patient data lifecycle management
12. Improve workflow automation in healthcare environments
13. Deploy and manage electronic prescribing (e-Prescription) systems

Target Audience

1. Healthcare IT Professionals
2. Hospital Administrators
3. Medical Records Officers
4. Doctors & Clinical Staff
5. Health Informatics Specialists
6. Public Health Managers
7. Biomedical Engineers
8. Health Technology Consultants

Course Modules

Module 1: Foundations of Electronic Health Systems

- Overview of EHS, EHR, EMR, HIS
- Digital transformation in healthcare
- Data flow in clinical environments
- Regulatory frameworks overview
- System architecture basics
- **Case Study:** Hospital digitization success in a multi-specialty healthcare facility

Module 2: Electronic Health Records (EHR) Systems

- EHR data structure and lifecycle
- Patient data management
- Record digitization techniques
- Integration with clinical workflows
- Data accuracy and validation
- **Case Study:** EHR implementation reducing medical errors in a regional hospital

Module 3: Interoperability & Health Data Standards

- HL7, FHIR, DICOM standards
- System integration techniques
- Cross-platform healthcare communication
- API-based health data exchange
- Data normalization methods
- **Case Study:** National healthcare interoperability project improving patient transfer efficiency

Module 4: Healthcare Data Analytics & AI

- Predictive healthcare analytics
- AI in diagnostics and treatment planning
- Machine learning in patient monitoring
- Big data processing in healthcare
- Clinical decision support systems
- **Case Study:** AI-based early disease detection system in urban hospitals

Module 5: Cybersecurity in Electronic Health Systems

- Healthcare data protection strategies
- Encryption and secure access control
- Threat detection systems
- Compliance with HIPAA/GDPR
- Incident response planning
- **Case Study:** Cyberattack prevention strategy in a private healthcare network

Module 6: Cloud-Based Health Information Systems

- Cloud architecture in healthcare
- SaaS-based hospital systems
- Data storage and scalability
- Remote access systems
- Disaster recovery solutions
- **Case Study:** Cloud migration improving efficiency in a large hospital chain

Module 7: Telemedicine & Remote Healthcare Systems

- Telehealth platforms and tools
- Remote patient monitoring systems
- Virtual consultation workflows
- Mobile health applications
- Digital prescription systems

- **Case Study:** Rural telemedicine deployment increasing healthcare access

Module 8: Health System Implementation & Optimization

- System deployment lifecycle
- Workflow automation techniques
- Performance optimization strategies
- User training and adoption
- System evaluation metrics
- **Case Study:** End-to-end EHS deployment in a government healthcare program

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com