



*Training Course:
Health Informatics*

*2 - 6 May 2027
Cairo (Egypt)*

Training Course: Health Informatics

Training Course code: HE235001 From: 2 - 6 May 2027 Venue: Cairo (Egypt) - Training Course Fees: 4100 € Euro

Introduction

Health Informatics is a rapidly evolving field that plays a critical role in improving patient outcomes, increasing healthcare efficiency, and reducing costs. The use of healthcare information technology and healthcare data analytics has transformed healthcare delivery, creating opportunities for healthcare providers to deliver patient-centered care while improving health outcomes. This training program is designed to provide participants with a comprehensive understanding of Health Informatics, its applications, and its importance in healthcare delivery.

Objectives

Understand the historical development of Health Informatics and its importance in healthcare delivery

- Describe the components and functionality of healthcare information systems
- Analyze the applications of Health Informatics in healthcare delivery and patient outcomes
- Evaluate the ethical, legal, and social issues in Health Informatics
- Apply Health Informatics concepts and methodologies to improve healthcare delivery and patient outcomes

Target Audience

- Physicians and nurses
- Healthcare administrators and managers
- Health Information Management professionals
- Healthcare IT professionals
- Healthcare data analysts and researchers

Course Outlines

Day 1: Overview of Health Informatics and Historical Development

- Introduction to Health Informatics and its evolution.
- The importance of Health Informatics in improving healthcare delivery and patient outcomes.
- Understanding healthcare information systems, their components, and functionality.
- Identifying key stakeholders in Health Informatics and their roles.
- Discussing ethical, legal, and social issues in Health Informatics.

Day 2: Health Information Management and Electronic Health Records EHRs

- Health Information Management principles.
- The role and benefits of Electronic Health Records EHRs in healthcare delivery and patient care.
- Health Information Exchange HIE and its challenges related to interoperability.
- Understanding Data Governance, Data Quality Assurance, and ensuring regulatory compliance.

- The importance of Health Information Privacy and Security.

Day 3: Clinical Decision Support Systems CDSS and Healthcare Analytics

- Introduction to Clinical Decision Support Systems CDSS and their applications in clinical decision-making.
- Healthcare Analytics and Business Intelligence applications in improving healthcare.
- Data Analytics and Data Mining for better healthcare outcomes.
- Exploring Predictive Analytics for clinical decision-making and patient outcomes.
- The role of Performance Management and Quality Improvement through data analysis.

Day 4: Health Information Technology HIT Infrastructure

- Overview of Health Information Technology HIT Infrastructure and its critical role in healthcare delivery.
- Health Information Technology Standards, their development, and implementation in healthcare organizations.
- Understanding Health Information Technology Policy and its impact on HIT infrastructure and healthcare delivery.
- The importance of Interoperability in Health Information Technology for effective healthcare delivery.

Day 5: Health Informatics Applications and Future Trends

- Telemedicine and Telehealth: applications and impact on healthcare delivery and patient access.
- The role of mHealth Mobile Health in improving patient outcomes and engagement.
- Remote Patient Monitoring and its significance in chronic disease management.
- Understanding Personal Health Records PHRs and their role in patient-centered care.
- The impact of Patient Portals on patient engagement and healthcare access.
- Artificial Intelligence AI and Machine Learning ML applications in healthcare delivery and data analysis.
- Internet of Things IoT and its role in patient care and healthcare outcomes.
- Exploring Blockchain and Distributed Ledger Technology in securing healthcare data and ensuring privacy.
- The role of Precision Medicine in personalized patient care.
- Emphasizing Patient-Centered Care and its impact on healthcare delivery and patient outcomes.

Registration form on the Training Course: Health Informatics

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