MERCURY

Clinical Informatics Training Course

27 June – 1 July 2027
Cairo (Egypt)



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Ref: 15486_309804 **Date:** 27 June – 1 July 2027 **Location:** Cairo (Egypt) **Fees:** 3500 Euro

Introduction:

Combining clinical knowledge with cutting-edge information technology revolutionizes patient care in healthcare. This Clinical Informatics course unfolds where healthcare intersects with informatics, offering a profound exploration of how data-driven insights and technological solutions elevate healthcare delivery's quality, efficiency, and safety. Clinical Informatics into a pivotal discipline whose history is rooted in the digitization of health records and the advent of electronic health systems.

Clinical Informatics facilitates the flow of information within healthcare settings. It empowers clinicians and healthcare administrators with tools to make informed decisions as we delve into this Clinical Informatics course and through the historical foundations, current applications, and future trajectories of Clinical Informatics. Well-navigate electronic health records, data analytics, and telehealth, equipping participants with the skills and insights to thrive in the modern healthcare landscape.

As healthcare professionals and technologists converge to shape the future of patient care, this Clinical Informatics course stands as a beacon, guiding participants toward a comprehensive understanding of Clinical Informatics and its transformative potential in healthcare. The future of healthcare is deeply intertwined with technological advancement, making the role of clinical informatics professionals more crucial than ever.

Targeted Groups:

- Healthcare Professionals Doctors, Nurses, Allied Health Professionals
- Health IT Specialists
- Clinical Analysts
- Healthcare Administrators
- Medical Informaticians

Course Objectives:

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

- Understand the fundamentals of Clinical Informatics.
- Apply informatics principles to enhance patient care and safety.
- Navigate and critically evaluate healthcare information systems.
- Analyze data to support clinical decision-making.
- Contribute effectively to the implementation of health IT solutions.

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Targeted Competencies:

Participants competencies in Clinical Informatics this training will:

- Health Information Management
- Electronic Health Record EHR Utilization
- Data Analysis and Interpretation
- Clinical Decision Support
- Health Information Exchange HIE

Understanding the Role of a Clinical Informatics Specialist:

Clinical Informatics Specialists are central to the modern transformation of healthcare. Define clinical informatics and examine its scope and impact. They are responsible for understanding medical practice and technology, bridging the gap between patient care and IT. This Clinical Informatics training investigates a clinical informatics specialist's role, responsibilities, and daily operations, highlighting the skills.

This Clinical Informatics course covers managing patient care information and decision-making processes, incorporating the essence of clinical informatics in healthcare into a clarified and tangible definition. Participants will discuss emergent trends, including the development of sophisticated clinical informatics tools and applications and the growing importance of analytics in shaping tomorrow's healthcare.

Course Outline:

Unit 1: Historical Foundations of Clinical Informatics:

- Evolution of Health Informatics and tracing the historical development of health informatics and its pivotal moments.
- Key Contributors and exploring the individuals and institutions that played a significant role in shaping clinical informatics.
- Technological Milestones and understanding the technological advancements that have propelled clinical informatics forward.
- Impact on Clinical Practice and analyzing how the integration of informatics has transformed and improved healthcare delivery.
- Future Trends and Anticipating the future trajectory of clinical informatics and potential innovations.

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Unit 2: Essentials of Health Information Systems:

- Architecture of Health Information Systems: Delving into the structural components that constitute robust health information systems.
- Electronic Health Records EHRs and Interoperability: Examining the functionality of EHRs and the importance of interoperability in healthcare settings.
- Role in Patient Care: Investigating how health information systems contribute to enhanced patient care and safety.
- Usability Challenges: Discuss common challenges related to the usability of health information systems.
- User Training: Strategies for effectively training healthcare professionals on using information systems.

Unit 3: Data Analytics in Healthcare:

- Introduction to Healthcare Analytics: Defining healthcare analytics and its significance in modern healthcare.
- Tools for Data Analysis: Exploring various data analysis tools used in healthcare settings.
- Case Studies in Data-Driven Decision Making: Analyzing real-world cases where data-driven decisions led to positive outcomes.
- Predictive Analytics: Understanding the application of predictive analytics in clinical settings.
- Ethical Considerations: Discussing the ethical implications of using data analytics in healthcare.

Unit 4: Telehealth Applications:

- Telemedicine vs. telehealth, distinguishing between telemedicine and telehealth, and understanding their respective applications.
- Remote Patient Monitoring and Exploring the use of telehealth for remote patient monitoring and management of chronic conditions.
- Challenges and Opportunities and Discussing the challenges and opportunities associated with the widespread adoption of telehealth.
- Virtual Consultations and Examining the effectiveness of virtual consultations in different healthcare scenarios.
- Regulatory Landscape and Navigating the Regulatory Environment Governing Telehealth Practices.

Unit 5: Security and Privacy in Health Informatics:

- HIPAA Compliance and Ensuring understanding and compliance with the Health Insurance Portability and Accountability Act.
- Data Security Measures and Implementing robust measures to safeguard health data from breaches and unauthorized access.
- Privacy Concerns and Solutions: Address privacy concerns associated with health informatics and propose viable solutions.
- Legal Implications and Understanding the legal implications of data breaches and privacy violations in healthcare.
- International Standards and Exploring global standards and best health data security and privacy practices.

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Unit 6: Interdisciplinary Collaboration:

- Bridging the Gap between Healthcare and IT: Fostering collaboration between healthcare and IT professionals for seamless integration.
- Effective Communication Strategies: Developing effective communication strategies to ensure understanding between diverse teams.
- Case Studies in Successful Collaboration: Analyzing case studies where interdisciplinary collaboration led to successful outcomes.
- Project Management in Healthcare IT and Understanding the project management principles in healthcare IT projects.
- Overcoming Cultural Barriers: Strategies for overcoming cultural and organizational barriers in interdisciplinary settings.