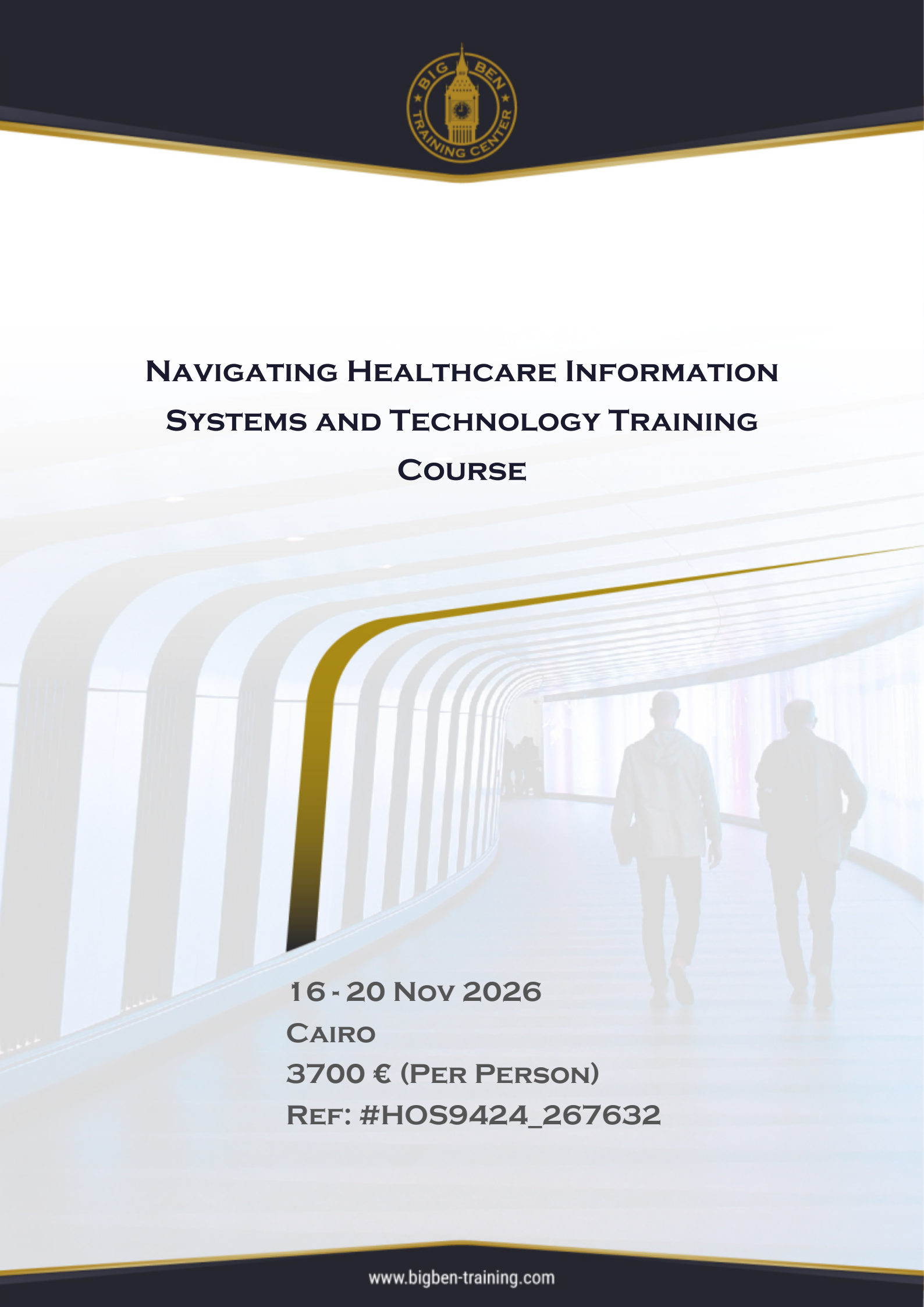
Navigating Healthcare Information Systems and Technology Training Course



16 - 20 Nov 2026

Cairo

3700 € (Per Person)

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Course Introduction / Overview:

The digital transformation of healthcare is reshaping how patient care is delivered, managed, and improved. This training course is designed to equip healthcare professionals with a deep understanding of information systems and technology management. It goes beyond the technical aspects of electronic health records (EHRs) and other systems to focus on the strategic implementation, governance, and effective use of technology to enhance patient outcomes and organizational efficiency. We explore the critical role of data analytics, interoperability, and cybersecurity in modern healthcare, addressing the complex challenges associated with managing sensitive patient information. Drawing on the expertise of academic authors like Dean C. Sittig, who has written extensively on health informatics, this course provides a comprehensive framework for success. Participants will learn how to lead technology-driven initiatives, ensure data privacy and security, and leverage informatics to improve clinical decision-making. BIG BEN Training Center is proud to offer this program that provides the essential skills to navigate the complexities of healthcare technology. The curriculum is designed to transform healthcare professionals into technology-savvy leaders who can harness the power of information systems to drive innovation and create a more connected and efficient healthcare ecosystem.

Target Audience / This training course is suitable for:

- Healthcare IT managers and chief information officers.
- Healthcare administrators and hospital executives.
- Clinical informaticists and health information managers.
- Physicians, nurses, and other clinicians.
- Data analysts and quality improvement specialists.
- Compliance and risk management professionals.
- Project managers in healthcare technology.

Target Sectors and Industries:

- Hospitals and hospital systems.
- Ambulatory care and outpatient clinics.
- Long-term care and nursing facilities.
- Health information technology (HIT) vendors.
- Government health agencies and public health departments.
- Medical device and pharmaceutical companies.
- Health insurance companies.

Target Organizations Departments:

- Information technology and health informatics.
- Hospital administration and operations.
- Medical records and health information management.
- Quality and patient safety.
- Clinical services and nursing.
- Finance and revenue cycle management.
- Compliance and legal affairs.

Course Offerings:

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

- Formulate a strategic plan for healthcare information systems adoption.
- Manage the implementation and optimization of Electronic Health Records (EHRs).
- Ensure data security and privacy in compliance with regulations like HIPAA.
- Use health data analytics to inform clinical and operational decisions.
- Improve interoperability between disparate healthcare IT systems.
- Lead technology-driven change and adoption among clinical staff.
- Manage telehealth and remote patient monitoring technologies.
- Evaluate and select new healthcare technologies and vendors.

Course Methodology:

This training course uses a highly practical and hands-on methodology to ensure that participants gain real-world skills in healthcare IT management. The program incorporates case studies of successful and challenging technology implementations, allowing participants to analyze key decisions and outcomes. We use interactive workshops where participants can practice using data analytics tools and develop strategies for system interoperability. The course includes role-playing exercises that simulate high-stakes IT-related situations, such as managing a data breach or negotiating with a technology vendor. BIG BEN Training Center believes in a collaborative learning environment, encouraging participants to share their own experiences and challenges. We will use group projects focused on developing a technology adoption plan or a cybersecurity protocol. This engaging and dynamic approach moves beyond theoretical concepts, giving participants the confidence and skills needed to lead technological initiatives effectively and strategically within their own organizations.

Course Agenda (Course Units):

Unit One: Foundations of Healthcare Information Systems

- The evolution of health information systems.
- Understanding Electronic Health Records (EHRs) and their components.
- The role of data in clinical and administrative decision-making.
- Key concepts of health informatics and interoperability.
- Emerging trends in healthcare technology.

Unit Two: Strategic Planning and Implementation

- Developing an IT strategy aligned with organizational goals.
- Managing the lifecycle of a technology project.
- Implementation methodologies for healthcare systems.
- User adoption and change management strategies.
- Evaluating the return on investment of IT initiatives.

Unit Three: Data Security and Privacy

- Understanding healthcare data privacy regulations.
- Threats to healthcare data security and how to mitigate them.
- Developing a robust cybersecurity framework.
- Incident response planning and management.
- The ethical considerations of data use.

Unit Four: Data Analytics and Informatics

- The power of data analytics in healthcare.
- Using dashboards and reporting to monitor performance.
- Predictive analytics for patient care and resource management.
- Clinical decision support systems.
- Leveraging data to improve quality and patient safety.

Unit Five: Managing Technology and Innovation

- Evaluating new healthcare technologies.
- Integrating telehealth and remote monitoring.
- Managing relationships with IT vendors.
- The future of AI and machine learning in healthcare.
- Building a culture of technological innovation.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

How can healthcare organizations balance the push for greater data sharing and interoperability with the critical need to protect patient privacy and maintain a secure digital environment in a world of increasing cyber threats?

What unique qualities does this course offer compared to other courses?

This training course is specifically designed for healthcare professionals, offering a specialized and practical approach to technology management that goes beyond general IT training. We do not just cover the "what," we focus on the "how," providing actionable strategies for implementing, managing, and optimizing healthcare information systems. The curriculum is unique in its emphasis on the human and organizational aspects of technology adoption, addressing the challenges of change management and staff engagement. Unlike generic tech courses, this program is built around real-world healthcare case studies, ensuring that participants learn how to apply their knowledge to solve specific problems in a clinical setting. By focusing on both the technical and strategic sides of healthcare IT, we prepare leaders who can navigate the complex digital landscape and use technology as a powerful tool for improving patient care and achieving organizational success.