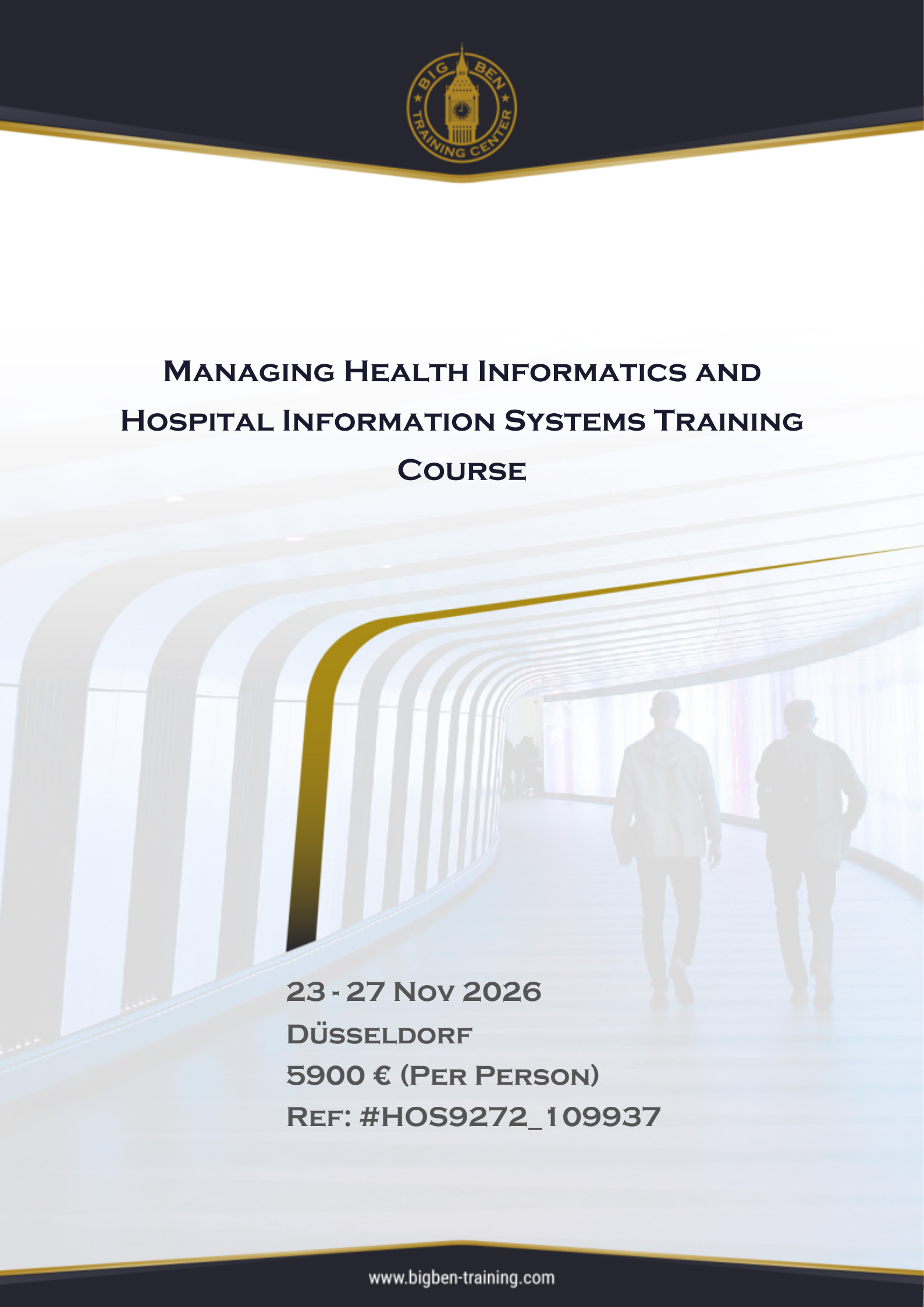
Managing Health Informatics and Hospital Information Systems Training Course



23 - 27 Nov 2026

Düsseldorf

5900 € (Per Person)

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Course Introduction / Overview:

This comprehensive course provides a deep dive into the critical intersection of healthcare, information technology, and management. In an era of digital health transformation, the effective management of Health Informatics and Hospital Information Systems (HIS) is paramount for delivering safe, efficient, and patient-centered care. This program is designed to equip participants with the foundational knowledge and practical skills needed to navigate the complexities of modern healthcare IT. As highlighted by the renowned academic Dr. William Hersh in his works, such as "Health and Clinical Informatics: A Managerial Perspective," the field requires a blend of technical understanding and strategic leadership. This course, offered by BIG BEN Training Center, moves beyond theoretical concepts to address real-world challenges, including system implementation, data governance, interoperability, and cybersecurity. Participants will explore the entire lifecycle of healthcare information systems, from needs assessment and vendor selection to change management and performance optimization, ensuring they are prepared to lead digital initiatives within their organizations.

Target Audience / This training course is suitable for:

- Healthcare Administrators and Managers.
- Hospital IT Directors and Staff.
- Clinical Informatics Specialists.
- Medical Records and Health Information Management Professionals.
- Physicians, Nurses, and other Clinical Staff involved in technology implementation.
- Healthcare Project Managers.
- Quality Improvement and Patient Safety Officers.
- Public Health Officials.
- Consultants working in the healthcare technology sector.
- Compliance and Risk Management Officers.

Target Sectors and Industries:

- Hospitals and Integrated Health Systems.
- Ambulatory Care Centers and Clinics.
- Long-Term Care Facilities.
- Pharmaceutical and Medical Device Companies.
- Healthcare Technology and Software Vendors.
- Public Health Organizations.
- Governmental Health Agencies and Ministries of Health.
- Health Insurance Providers.
- Medical Research Institutions.
- Healthcare Consulting Firms.

Target Organizations Departments:

- Information Technology (IT) Department.
- Health Information Management (HIM) and Medical Records.
- Clinical Departments (e.g., Nursing, Medicine, Pharmacy, Radiology).
- Hospital Administration and Executive Management.
- Finance and Revenue Cycle Management.
- Quality Assurance and Improvement.
- Operations and Patient Services.
- Compliance and Legal Affairs.
- Human Resources (for training and change management).
- Strategic Planning and Business Development.

Course Offerings:

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

- Analyze the strategic role of health informatics in modern healthcare delivery.
- Evaluate the core components and functionalities of various Hospital Information Systems.
- Develop a framework for selecting, implementing, and managing EHR and HIS projects.
- Apply principles of data governance, security, and privacy in a healthcare context.
- Understand key interoperability standards like HL7 and FHIR for seamless data exchange.
- Manage change effectively during the transition to new digital health technologies.
- Assess the impact of emerging technologies such as AI and telehealth on hospital operations.
- Formulate strategies for optimizing clinical workflows using information systems.
- Ensure compliance with healthcare regulations like HIPAA.
- Lead data-driven decision-making processes to improve patient outcomes and operational efficiency.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, interactive, and highly practical. We believe that adult learning is most effective when it connects theory to real-world application. This course utilizes a blended approach that includes expert-led presentations, interactive group discussions, and in-depth case study analyses of successful and challenging HIS implementations. Participants will engage in collaborative workshops to design workflow improvements and develop project plans. Practical exercises will focus on problem-solving common issues in healthcare IT, such as data security breaches and interoperability barriers. The facilitator will foster a dynamic learning environment where participants can share their own professional experiences and learn from their peers. Continuous feedback is a cornerstone of our approach, ensuring that every participant can grasp complex concepts and confidently apply their new skills back in their workplace. The program is structured to build knowledge progressively, culminating in a final project that integrates all the core competencies learned throughout the five days.

Course Agenda (Course Units):

Unit One: Foundations of Health Informatics and HIS

- Introduction to Health Informatics and its scope.
- The evolution of Hospital Information Systems (HIS).
- The role of IT in the healthcare ecosystem.
- Key terminology and concepts in digital health.
- Understanding clinical and administrative workflows.
- The strategic value of information systems in healthcare.
- Global trends in healthcare technology adoption.

Unit Two: Core Components and Interoperability of HIS

- Electronic Health Records (EHR) vs. Electronic Medical Records (EMR).
- Clinical Decision Support Systems (CDSS).
- Computerized Physician Order Entry (CPOE).
- Specialized Systems: LIS, RIS, and PACS.
- Pharmacy and Medication Management Systems.
- Understanding interoperability and its challenges.
- Introduction to standards: HL7, DICOM, and FHIR.

Unit Three: Data Governance, Privacy, and Security

- Principles of healthcare data governance.
- Ensuring data quality, integrity, and accuracy.
- Introduction to healthcare data analytics and business intelligence.
- Patient data privacy and confidentiality.
- Understanding HIPAA and other global data protection regulations.
- Cybersecurity threats in healthcare.
- Developing a robust information security strategy.

Unit Four: HIS Project Management and Implementation

- The HIS project lifecycle from planning to post-implementation.
- Conducting needs assessments and defining system requirements.
- Vendor evaluation, selection, and contract negotiation.
- Strategic planning for HIS implementation.
- Change management and stakeholder engagement.
- User training, support, and system adoption strategies.
- Go-live planning and execution.

Unit Five: Advanced Topics and Future of Health Informatics

- The role of Artificial Intelligence (AI) and Machine Learning in diagnostics.
- Telehealth and remote patient monitoring technologies.
- Big Data analytics for population health management.
- The impact of cloud computing on healthcare IT infrastructure.
- Patient engagement and the role of patient portals.
- Ethical considerations in health informatics.
- Future challenges and opportunities in digital health leadership.

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:

As healthcare systems increasingly rely on AI for clinical decision support, how can organizations balance the benefits of algorithmic efficiency with the ethical imperative to maintain human oversight and accountability in patient care?

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

This course distinguishes itself by adopting a holistic, management-centric perspective that bridges the critical gap between technical IT functions and clinical and administrative leadership. While many programs focus solely on the technical aspects of software and hardware, this training emphasizes the strategic, operational, and human factors essential for successful HIS implementation and management. We delve deeply into the practical challenges of change management, stakeholder engagement, and workflow redesign, which are often the primary determinants of a project's success. The curriculum is built around real-world case studies, providing participants with actionable insights and frameworks they can immediately apply. Furthermore, the course is forward-looking, dedicating significant time to emerging trends like AI, telehealth, and big data analytics, preparing leaders not just for the challenges of today but for the digital health landscape of tomorrow. It moves beyond mere feature-function training to cultivate the strategic thinking required to leverage technology for tangible improvements in patient safety, operational efficiency, and quality of care.