



Healthcare and Life Sciences Data Management Training Course

14 - 18 Jun 2026

Istanbul

4500 € (Per Person)

Ref: #DM4274_128241



Course Introduction / Overview:

The healthcare and life sciences industry is going through a data revolution, where patient records, clinical trial results, and genomic data are growing at an exponential rate. Effective data management is not just a technical issue, but a critical factor in patient care, research, and regulatory compliance. This training course is designed to give participants a thorough understanding of the unique data management challenges in this field. We will cover key topics like data privacy, data quality, and the regulatory frameworks that govern sensitive health information. The course provides a deep dive into how to manage data to improve clinical outcomes, speed up research, and ensure compliance with regulations like HIPAA and GDPR. We will explore data governance, data lineage, and the specific use cases for data in healthcare and life sciences. In his book "The Digital Doctor: Hope, Hype, and Harm at the Dawn of Medicine's Computer Age," Robert Wachter discusses how technology and data management are changing the medical field. At BIG BEN Training Center, we understand the need for reliable data in this critical sector. This training course will equip participants with the skills to build a robust data management framework that upholds data security and privacy while also supporting innovation and better health outcomes.

Target Audience / This training course is suitable for:



- Healthcare administrators and hospital managers.
- Clinical data managers and data analysts.
- Research scientists and lab technicians.
- Compliance officers and privacy officers.
- IT professionals in healthcare.
- Pharmaceutical and biotech professionals.
- Public health officials.

Target Sectors and Industries:

- Hospitals and healthcare providers.
- Pharmaceutical and biotechnology companies.
- Medical device manufacturers.
- Clinical research organizations.
- Public health agencies and government.
- Health IT vendors.
- Academic and research institutions.

Target Organizations Departments:

- Health Information Management.
- IT and Information Security.
- Clinical Research.
- Compliance and Legal.
- Quality Assurance.
- Data Analytics and Business Intelligence.
- Medical Records.

Course Offerings:



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

- Design and implement a data governance strategy for healthcare data.
- Ensure compliance with patient data privacy regulations like HIPAA and GDPR.
- Improve data quality for clinical research and patient care.
- Manage the data lifecycle from patient intake to archival.
- Understand and apply data lineage for clinical trial data.
- Secure and protect sensitive health information.
- Streamline data workflows for better operational efficiency.
- Use data to improve patient outcomes and operational decisions.

Course Methodology:

This training course uses a mix of teaching methods to give participants a thorough and practical learning experience. We will use interactive sessions, real-world case studies, and group exercises that are based on scenarios in the healthcare and life sciences industry. Participants will work on challenges related to patient data privacy, clinical trial data management, and regulatory reporting. Our expert trainers will provide direct feedback and guidance, making sure participants not only understand the concepts but can also apply them effectively. The course is designed to be highly hands-on, with a focus on practical examples rather than just theory. At BIG BEN Training Center, we are committed to providing training that is directly relevant to the professional world. Our methodology makes sure that participants leave with the skills and confidence to address their organization's data management needs.

Course Agenda (Course Units):



Unit One: Foundations of Health Data Management.

- The unique challenges of data in healthcare.
- Understanding the data lifecycle from a clinical perspective.
- Key principles of data governance and data quality.
- Introduction to HIPAA, GDPR, and other key regulations.
- The importance of data for clinical decision support.
- Data silos in healthcare and how to break them down.
- The role of electronic health records (EHRs).

Unit Two: Data Security and Privacy Compliance.

- Understanding patient data privacy and confidentiality.
- HIPAA and GDPR compliance for data management.
- Implementing security controls for sensitive data.
- Data encryption and access control.
- Breach response protocols.
- Best practices for data anonymization and de-identification.
- Case study: managing data breach.

Unit Three: Clinical and Research Data Management.

- Best practices for clinical trial data management.
- Ensuring data quality in research studies.
- Data lineage for clinical trial traceability.
- Managing genomic data and other large datasets.
- Data integration from different sources.
- The role of master data management.
- Data management for real-world evidence.

Unit Four: Data Architecture and Interoperability.



- Designing health data architecture.
- Data warehouses vs. data lakes for healthcare.
- Data interoperability and health information exchanges.
- Introduction to health data standards, e.g., FHIR.
- Building data pipelines for analysis and reporting.
- Using data analytics to improve patient care.
- Best practices for data migration.

Unit Five: The Future of Health Data.

- The impact of AI and machine learning on healthcare.
- Managing data for precision medicine.
- Ethical considerations in using patient data.
- Data management for telemedicine and remote patient monitoring.
- Emerging trends in health data technology.
- Final project: designing a data management strategy for a fictional hospital department.

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:



Given the sensitive nature of patient data and the constantly evolving regulatory landscape, how can healthcare organizations build a data management strategy that not only ensures compliance but also unlocks the full potential of data for improving patient outcomes and accelerating medical research?

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

This training course is designed specifically for the healthcare and life sciences industry, which makes it very different from general data management programs. We do not just cover basic concepts; we dive deep into the unique challenges and regulatory requirements of this sector, such as HIPAA, GDPR, and the management of clinical trial data. The content is directly relevant to issues like patient privacy, clinical data quality, and research integrity. Our course places strong emphasis on practical application through industry-specific case studies, letting participants work through real-world scenarios they will encounter in their jobs. This combination of deep industry focus, practical exercises, and strategic insight makes this course an essential tool for any professional looking to master data management in the healthcare and life sciences field.