Modern Data Lifecycle Management for Enterprises Training Course

07 - 11 Dec 2026

Cairo

3700 € (Per Person)

Ref: #DM6991_255813

Course Introduction / Overview:

In today's data-driven business world, managing data is a lot like managing a company's most important asset. From the moment data is created to its final archival, a clear and efficient data lifecycle is crucial for success. This training course gives a comprehensive look at the entire data lifecycle, from collection to archival. We will cover the core principles of data management, including data quality, security, and governance. Participants will learn how to design, implement, and maintain a robust data management framework that not only ensures compliance but also unlocks the strategic value of their data. The course addresses the challenges of big data, the importance of data lineage, and best practices for data retention and disposal. Author David Loshin, in his book "Business Intelligence: The Savvy Manager's Guide," talks about how effective data management is essential for making smart business decisions. At BIG BEN Training Center, we understand that data is a continuous journey, not just a one-time project. This training course will give participants the skills to build a seamless data lifecycle, from the initial planning stages to the final archival process, making sure their data is always accurate, secure, and ready to be used.

Target Audience / This training course is suitable for:

- Data managers and data stewards.
- Data architects and data engineers.
- IT professionals and system administrators.
- Compliance and risk management officers.
- Business analysts and project managers.
- Chief Data Officers and Chief Information Officers.
- Anyone responsible for data strategy.

Target Sectors and Industries:

- Financial services, including banking and insurance.
- Healthcare and pharmaceuticals.
- Technology and software development.
- Telecommunications.
- Retail and e-commerce.
- Government agencies and the public sector.
- Manufacturing.

Target Organizations Departments:

- IT and Data Management.
- Compliance and Legal.
- Risk Management.
- Data Analytics and Business Intelligence.
- Operations.
- Information Security.

Course Offerings:

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

- Design and implement a complete data lifecycle management strategy.
- Apply best practices for data collection, validation, and storage.
- Ensure data quality and integrity throughout its lifecycle.
- Establish robust data governance and security protocols.
- Create and manage data retention and archival policies.
- Understand data lineage and its importance for compliance.
- Optimize data usage for business intelligence and analytics.
- Develop a plan for secure data disposal.

Course Methodology:

This training course uses a mix of teaching methods to give participants a thorough and practical understanding of data lifecycle management. We will use interactive sessions, real-world case studies, and group exercises to bring the concepts to life. Participants will be asked to work on a hands-on project that simulates a complete data lifecycle, from data collection to archival, in a controlled environment. This will help them apply the theory to practical challenges. Our expert trainers will provide personalized feedback and guidance, making sure that every participant can apply what they learn to their own organization's data strategy. At BIG BEN Training Center, we believe that learning is most effective when it is directly connected to real-world problems. Our methodology makes sure you not only understand the concepts but also know how to put them into action.

Course Agenda (Course Units):

Unit One: Foundations of Data Lifecycle Management.

- The core phases of the data lifecycle.
- The business value of data lifecycle management.
- Introduction to data governance and data quality.
- Legal and regulatory considerations.
- Establishing data ownership and stewardship.
- The role of data in strategic decision-making.
- Case studies of data lifecycle failures.

Unit Two: Data Collection, Ingestion, and Storage.

- Data collection methods and best practices.
- Data ingestion: from source to repository.
- Choosing the right data storage architecture.
- Data lakes, data warehouses, and data marts.
- Managing different data types.
- Data security from the start.
- Data integrity and validation at collection.

Unit Three: Data Processing, Usage, and Maintenance.

- Data cleaning and transformation.
- Data integration and consolidation.
- Using data for business intelligence and analytics.
- Data lineage and its role in traceability.
- Best practices for master data management (MDM).
- Data maintenance and monitoring.
- Managing data access and security.

Unit Four: Data Archival and Disposal.

- Establishing a data retention policy.
- Legal and compliance issues in data archiving.
- Strategies for data archival: on-premises vs. cloud.
- Secure data disposal methods.
- The impact of data archival on system performance.
- Auditing data lifecycle processes.
- Building a data retention schedule.

Unit Five: Designing a Data Lifecycle Strategy.

- Assessing your organization's data maturity.
- Developing a data lifecycle management roadmap.
- Selecting the right tools and technologies.
- Building a data-driven culture.
- Roles and responsibilities for data lifecycle.
- Future trends in data management.
- Final project: a comprehensive data lifecycle plan.

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:

Considering the constant flow of new data and evolving regulations, how can organizations build a data lifecycle management strategy that not only meets current needs but also remains flexible and scalable to adapt to future technological changes and compliance requirements?

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

This training course provides a complete, end-of-the-end view of the data lifecycle, which is different from courses that focus on only one part, like data analysis or data storage. We do not just teach technical skills; we show participants how to build a strategic framework that manages data from its creation to its final archival. The course goes into the often overlooked but critical aspects of data management, such as data retention, disposal, and the legal issues involved. Our hands-on project and case studies make sure participants can apply what they learn to real-world business challenges. This holistic and strategic approach makes this course an essential tool for any professional who needs to manage data across its entire journey, giving them the skills to turn data from liability into a key business asset.