Enterprise-level Data Mapping for Business Analysts Training Course

14 - 18 Dec 2026

Cairo

3700 € (Per Person)

Ref: #CAD9751_266097

Course Introduction / Overview:

This training course is designed to equip business analysts, data modelers, and IT professionals with the strategic and technical skills needed to master enterprise-level data mapping. The ability to understand and document the flow of data across an organization is a critical driver for successful system integrations, data governance, and strategic decision-making. This program, offered by BIG BEN Training Center, provides a comprehensive framework for understanding the core principles of data lineage, from various mapping techniques and data dictionaries to data quality management and regulatory compliance. We will explore key concepts such as ETL processes, data transformation rules, and the use of data mapping tools. The curriculum is informed by the academic work of authors like Dama S. Sembiring, whose book, Data Mapping Fundamentals for Business Analysts, provides a foundational and detailed understanding of the principles behind effective data documentation. This course goes beyond a simple overview of spreadsheets to provide a deep understanding of how to implement real-world solutions that ensure data accuracy, analytical rigor, and long-term value. We prepare participants to be leaders who can build more efficient and innovative data initiatives.

Target Audience / This training course is suitable for:

- Business analysts.
- Data analysts and scientists.
- Data architects and modelers.
- IT project managers.
- Database administrators.
- System integrators.
- Compliance officers.
- Government agencies and equivalents.

Target Sectors and Industries:

- Finance and Banking.
- Healthcare.
- Information Technology (IT).
- Retail and E-commerce.
- Telecommunications.
- Manufacturing.
- Logistics and Transportation.
- Government and public administration agencies.

Target Organizations Departments:

- Business Analysis.
- Information Technology (IT).
- Data Governance.
- Data Warehousing.
- Compliance and Risk Management.
- Operations.
- Project Management Office (PMO).
- Strategic Planning.

Course Offerings:

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

- Apply foundational data mapping principles.
- Create a comprehensive data dictionary.
- Document data lineage and flow.
- Utilize a data mapping tool.
- Develop effective data transformation rules.
- Ensure data quality management.
- Comply with regulatory compliance standards.
- Support system integration projects.

Course Methodology:

This training course uses a highly practical and case-study driven methodology. The program is built on real-world examples of successful enterprise-level data mapping projects. Participants will work in teams to map the data flow for a hypothetical business process, applying the tools and frameworks learned in the course. We will use interactive workshops to practice skills like creating a data dictionary and documenting transformation rules. The curriculum is designed to be a collaborative experience where participants can share their unique challenges and innovative solutions. Our trainers, with extensive experience in the field, will provide direct feedback and guidance throughout the course. BIG BEN Training Center is committed to providing a dynamic and practical learning environment, ensuring that participants leave with the skills and confidence to effectively perform data mapping.

Course Agenda (Course Units):

Unit One: Foundations of Data Mapping

- The business case for data mapping.
- Understanding the data lifecycle.
- Introduction to data lineage.
- The role of a data dictionary.
- Key challenges in enterprise data.
- Case studies in successful data initiatives.
- The importance of data quality.

Unit Two: Mapping Techniques and Documentation

- Creating a data flow diagram.
- Documenting source and target systems.
- Mapping techniques for different data types.
- Developing a data transformation plan.
- Using metadata effectively.
- Best practices for documentation.
- Validating the mapping document.

Unit Three: Transformation Rules and ETL Processes

- Understanding ETL processes.
- Designing data transformation rules.
- Handling data aggregations and joins.
- Working with business logic.
- Data standardization and normalization.
- Data enrichment techniques.
- Ensuring a smooth data load.

Unit Four: Data Quality and Governance

- The importance of data quality management.
- Defining data quality rules.
- Implementing data validation checks.
- Data governance principles.
- Ensuring regulatory compliance.
- Data security and access control.
- Auditing data mapping documents.

Unit Five: Strategic Application and Future Trends

- Using data mapping for system integration.
- The role of leadership in data governance.
- Future trends in data mapping tools.
- The impact of AI on data processes.
- Career pathways for data professionals.
- Building a data-driven culture.
- Showcasing the value of a comprehensive data map.

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 a deeper understanding of enterprise-level data mapping and a proactive approach to data governance empower business analysts to move beyond simple data analysis and become strategic leaders in leveraging data to drive operational efficiency and innovation?

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

This training course is unique because it provides a dedicated, strategic focus on enterprise-level data mapping for business analysts. While other programs may cover general data analysis, our curriculum is designed to empower professionals with the specific skills needed to address the unique challenges of large-scale data projects, from documenting data lineage to ensuring regulatory compliance. The program is a hands-on experience, with exercises that directly simulate the challenges and decisions involved in a real-world data integration project. We go beyond theoretical concepts to provide a clear, actionable roadmap for balancing the demands of a complex project with the imperative of delivering a successful and well-documented data flow. This course is for professionals who want to lead their organizations toward a more efficient, profitable, and innovative future.