

# € TRAINING

Data Management Security and  
Warehousing

A group of four smiling business professionals (two men and two women) in a meeting room, wearing white shirts. The image is partially obscured by a blue curved graphic element.

21 - 25 October 2024  
Amsterdam (Netherlands)



# Data Management Security and Warehousing

REF: G1235 DATE: 21 - 25 October 2024 Venue: Amsterdam (Netherlands) - Fee: 6145 Euro

## Introduction:

This training program introduces participants to the essential principles of data management and warehousing, focusing on their strategic role in modern business. It empowers them to effectively manage data projects, ensuring security, integrity, and optimized performance.

## Program Objectives:

By the end of this program, participants will be able to:

- Understand the key concepts of data management and warehousing in business.
- Plan and manage data warehousing projects effectively.
- Ensure data integrity through best practices in acquisition and validation.
- Implement robust data security measures and compliance.
- Apply advanced techniques in Big Data and data warehousing optimization.

## Targeted Audience:

- Data analysts, managers, and scientists.
- Information technology professionals.
- Business intelligence professionals.
- Database administrators.
- Project managers involved in data-related projects.
- Executives and decision-makers seeking to leverage data for strategic insights and decision-making.

## Program Outlines:

### Unit 1.

#### Introduction to Data Management and Warehousing:

- Overview of Big Data and its implications.
- Importance of strategic information in decision-making.

- Fundamentals of data management and warehousing.
- Role of data warehousing in modern business strategies.
- Challenges and opportunities in the era of Big Data.

## Unit 2.

### Planning and Project Management in Data Warehousing:

- Steps involved in planning a data warehousing project.
- Project management methodologies and frameworks.
- Defining project scope, objectives, and deliverables.
- Risk assessment and mitigation strategies.
- Resource allocation and scheduling.
- Monitoring, evaluation, and project closure.

## Unit 3.

### Data Acquisition and Validation:

- Methods for acquiring and collecting data.
- Importance of data quality and integrity.
- Techniques for data validation and cleansing.
- Data profiling and metadata management.
- Strategies for handling missing or incomplete data.
- Tools and technologies for data acquisition and validation.

## Unit 4.

### Data Security Strategies and Best Practices:

- Understanding the importance of data security.
- Common threats and vulnerabilities in data environments.
- Principles of data security and encryption.
- Access control and authentication mechanisms.

- Data privacy regulations and compliance requirements.
- Techniques for implementing security policies and procedures.

## Unit 5.

### Advanced Topics in Data Warehousing and Big Data:

- Scalability and performance optimization in data warehousing.
- Real-time data processing and analytics techniques.
- Data integration and interoperability.
- Cloud-based data warehousing solutions.
- Emerging trends and technologies in Big Data.
- Case studies and practical applications of advanced data warehousing concepts.