



*Training Course:
Certified Associate in Data Integration*

*22 - 26 December 2024
Istanbul (Turkey)
DoubleTree by Hilton Istanbul Esentepe*

Training Course: Certified Associate in Data Integration

Training Course code: SC6061 From: 22 - 26 December 2024 Venue: Istanbul (Turkey) - DoubleTree by Hilton Istanbul Esentepe Training Course Fees: 5775 € Euro

Introduction

Data integration is the cornerstone of modern data management, enabling organizations to consolidate data from various sources for analysis and decision-making. This [Certified Associate in Data Integration](#) training program provides a comprehensive foundation in data integration techniques, tools, and best practices. Participants will learn how to design, implement, and manage data integration workflows to ensure seamless data connectivity across systems.

Target Audience

- Data analysts and database administrators.
- IT professionals involved in data integration projects.
- Business intelligence and data warehousing specialists.
- Professionals aiming to achieve a certification in data integration.
- Students and early-career professionals seeking expertise in data management.

Objectives

By the end of the program, participants will:

1. Understand the fundamentals of data integration and its role in data management.
2. Gain hands-on experience with leading data integration tools and platforms.
3. Design efficient ETL Extract, Transform, Load workflows.
4. Address challenges like data quality, scalability, and integration with modern systems.
5. Prepare for certification as a Data Integration Associate.

5-Day Training Outlines

Day 1:

Fundamentals of Data Integration

- Key Topics:

- Introduction to Data Integration Concepts.
 - Understanding Data Sources: Relational, Non-relational, and APIs.
 - Overview of ETL vs ELT Processes.
 - Tools and Platforms for Data Integration.
 - Hands-on Session: Exploring Data Integration Interfaces.
- **Outcome:** Participants gain a foundational understanding of data integration principles and tools.

Day 2:

Designing ETL Processes

- **Key Topics:**
 - Extracting Data from Multiple Sources.
 - Data Transformation Techniques and Best Practices.
 - Loading Data into Target Systems: Databases and Data Warehouses.
 - Managing Data Mapping and Schema Alignment.
 - Workshop: Designing an ETL Workflow.
- **Outcome:** Ability to design and implement efficient ETL workflows.

Day 3:

Data Quality and Governance in Integration

- **Key Topics:**
 - Addressing Data Quality Issues: Cleansing, Validation, and Deduplication.
 - Data Governance and Compliance in Integration Projects.
 - Metadata Management for Integrated Systems.
 - Hands-on Session: Applying Data Quality Tools.
- **Outcome:** Participants understand how to ensure high-quality and compliant data integration.

Day 4:

Advanced Integration Techniques

- Key Topics:
 - Real-Time Data Integration and Streaming.
 - Cloud-Based Integration and Hybrid Systems.
 - Automation and Scheduling in ETL Processes.
 - Integration with BI Tools and Data Visualization Platforms.
 - Case Study: Solving Complex Integration Scenarios.
- Outcome: Advanced skills in integrating modern data systems and technologies.

Day 5:

Preparing for Certification and Practical Applications

- Key Topics:
 - Certification Exam Overview: Domains and Competencies.
 - Tips for Exam Preparation and Success.
 - Practical Applications: Implementing a Full Data Integration Project.
 - Workshop: Mock Exam and Review Session.
 - Q&A and Wrap-Up.
- Outcome: Confidence and readiness to achieve certification as a Data Integration Associate.

Registration form on the Training Course: Certified Associate in Data Integration

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