DAMA DMBoK Data Integration & Interoperability Specialist Training

Duration: **1 Day**

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The DAMA DMBoK Data Integration & Interoperability Specialist is a one-day course designed for professionals who want to develop specialist knowledge in **Data Integration & Interoperability** within the wider field of Data Management.

Aligned with the international DAMA Body of Knowledge (DMBOK2) standard, the course addresses the disciplines required for the Data Integration & Interoperability specialist examination. Participants explore how Data Integration & Interoperability fits within the broader Data Management landscape and develop an understanding of its role across different data management activities.

The course also introduces the DAMA professional certification framework and the different levels of the **Certified Data Management Professional (CDMP)** certification. Its primary focus is on managing the movement, integration, and consolidation of data within applications, between systems, and across organisational boundaries.

Prerequisites

Before attending this specialist course, completion of the following training is recommended:

- **CDMP-DMF – DAMA DMBoK Data Management Fundamentals**

What You Will Learn

By the end of the course, participants will be able to:

- Develop an understanding of Data Integration & Interoperability and its place within Data Management,
- Understand how data moves within and between organisations,
- Explain the role of Data Integration & Interoperability,
- Recognise the key approaches and tools used to support data integration and interoperability activities.

Training Outline

Extract, Transform and Load (ETL)

Explore the process of extracting data from source systems, transforming it as required, and loading it into a target environment.

Extract, Load and Transform (ELT)

Examine the ELT approach, where data is first loaded into the target environment before transformation activities are performed.

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Change Data Capture (CDC)

Understand approaches for identifying changes made to data in source systems and making those changes available to relevant target systems.

Synchronous and Asynchronous Data Flows

Explore the characteristics of synchronous and asynchronous data flows and how they support data movement between different systems.

Data Replication

Examine approaches for copying and replicating data between systems or environments.

Canonical Data Models

Explore the use of canonical data models to support consistent data exchange and integration between different applications and systems.

Interaction Models

Examine interaction models used to support the exchange and movement of data between applications and systems.

Data Integration & Interoperability Architecture Concepts

Explore the core architectural concepts associated with designing and managing Data Integration & Interoperability solutions.

Data Lineage

Understand how data lineage can be used to trace the movement and transformation of data from its original source through to its destination.

Data Profiling

Explore data profiling approaches used to understand the structure, characteristics, and current state of data.

Data Integration & Interoperability Tooling

Review the tools used to support Data Integration & Interoperability processes and understand their role within data management environments.