

## Course Title:

### **Data Warehousing & Business Intelligence Specialist Exam by DAMA(1 Day Course)**

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## Prerequisites:

This is a theoretical course aligned with the **DAMA-DMBOK2 framework**. No hands-on implementation is covered.

- Must have appeared for the **CDMP Data Management Fundamentals exam and obtained at least a 70% pass score**
  - Familiarity with core data management principles and data architecture concepts
  - Ideal for:
    - BI/Data Warehouse Architects
    - Data Analysts
    - Data Engineers
    - Business Intelligence Specialists
    - Data Governance and IT Professionals preparing for CDMP Specialist certification
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## **Table of Contents – 1 Day Session**

### **Module 1: Introduction to Data Warehousing & BI**

- Definition of Data Warehousing & BI
- The Role of DW/BI in Enterprise Data Management
- Business Drivers and Benefits
- Goals and Key Principles
- Use Cases and Value Proposition

### **Module 2: Core Concepts and Components**

- Data Warehouse Architecture Overview (Inmon vs. Kimball)
- Operational Data Stores (ODS) vs. Data Warehouses
- Data Marts and Data Lakes
- ETL vs. ELT and Data Staging
- Data Sources and Input

### **Module 3: Types of Warehouses and BI Structures**

- Centralized, Federated, and Virtual Warehouses
- Active Data Warehousing

- Real-time vs. Batch Processing
- BI Tools and Analytics Platforms

#### **Module 4: Key DW/BI Activities**

- Planning DW/BI Projects
- Data Profiling and Source Analysis
- Data Modeling for DW (Star, Snowflake, Fact-Dimension)
- Prototyping for Requirement Gathering
- Extract, Transform, Load (ETL) and Data Quality Checks

#### **Module 5: Enabling Self-Service BI and Data Access**

- Self-Service BI Concepts
- Role of Metadata in BI Portals
- User Access and Data Delivery Mechanisms
- Role-Based Access to Dashboards, Reports

#### **Module 6: Managing and Maintaining the DW/BI Environment**

- Auditing and Data Lineage in DW
- Data Refresh and Archival Policies
- Change Data Capture (CDC)
- Performance Monitoring and Tuning
- Governance and Security of DW/BI systems

#### **Module 7: Tools, Techniques, and Best Practices**

- Common DW/BI Tools (mention generic categories)
- Data Virtualization and Agile BI
- Cloud-based DW/BI Approaches
- Success Metrics and Maturity Assessment
- Aligning DW/BI with Business Objectives

#### **Module 8: Summary & Exam Preparation**

- Practice Exam Questions (aligned to DAMA Specialist level)
- Exam Tips for DW/BI Specialist Exam
- Summary of Key Concepts