

## Course Outline

---

### 2794- Designing a Business Intelligence solution for the Enterprise using Microsoft SQL server 2005



**Duration:** 2 days (12 hours)

#### Learning Objectives:

- Capture the business and technical requirements for a Business Intelligence solution architecture
- Describe the major stages and requirements of a Business Intelligence project lifecycle
- Determine Business Intelligence development requirements and implement a Business Intelligence development project
- Assess and design a Business Intelligence infrastructure
- Describe and plan Business Intelligence operations and their management

#### Target Audience:

This course is intended for experienced BI and SQL Server DBA professionals. The target students for this course already have an understanding of how to use the SQL Server 2005 tools to design BI infrastructure and solutions, but need to develop their understanding of design principles and best practices when planning, implementing, and deploying a Business Intelligence architecture and solution

#### Prerequisites:

- Have observed all phases of the BI project lifecycle
- Collecting requirements
- Defining database models
- Developing ETL
- Creating OLAP solutions
- Developing reports
- Supporting deployed solutions
- Have foundational conceptual understanding of data warehousing, data marts, and Business Intelligence. Students must be well versed on the subjects of data warehousing, data marts, and BI, and preferably have read at least one book by Ralph Kimball or Bill Inmon
- Practical experience with OLAP, ETL, and Reporting on the Microsoft SQL Server Platform. For example, constructing cubes, developing packages, and writing reports
- Conceptual understanding of the components of SQL Server 2005. For example, changes to the OLAP, ETL, and reporting technologies
- Have foundational understanding of Microsoft Windows security. For example, how groups, delegation of credentials, and impersonation function in a security context
- Have foundational understanding of Web-based architecture. For example, SSL, SOAP, and IIS—what they are and what their role is
- Must understand the difference between replication and ETL
- Already know how to use
- Microsoft Office Visio

- Microsoft SQL Server Business Intelligence Development Studio
- Microsoft SQL Server Management Studio
- Performance Monitor
- Report Builder and Report Manager
- Microsoft Visual SourceSafe
- Microsoft Office Project
- Be familiar with SQL Server 2005 features, tools, and technologies

### **Topics Covered:**

- Introduction to Business intelligence Architecture
  - Overview of Business Intelligence
  - Overview of Business Intelligence Architecture
  - Identifying Business intelligence requirements
  - Determining Business Requirements
  - Designing a High Level Architecture
- Introduction to Business Intelligence Development
  - Overview of Business Intelligence Development
  - Managing Business Intelligence Development
  - Determining Data Management Process
  - Developing a Business intelligence solution
  - Identifying Team Requirements
  - Determining Development Standards
- Designing Business Intelligence infrastructure
  - Determining Infrastructure Requirements
  - Designing the Infrastructure
  - Planning for Scalability and Availability
  - Supporting Business intelligence infrastructure growth
  - Determining Growth Requirements
  - Projecting Capacity and Throughput Requirements
  - Identifying Reporting Services Growth Requirements
- Managing Business intelligence Operations
  - Overview of Business Intelligence Operations
  - Managing Maintenance and Operations Tasks
  - Managing Data Archiving
  - Managing Business Intelligence Operations for Business Continuity
  - Using Microsoft Operations Framework (MOF) to manage Business intelligence Operations
  - Planning the Operations Solution
  - Determining the Current State of Operations
  - Evaluating Operational Costs and Risks