

## Designing a Business Intelligence Solution for the Enterprise Using Microsoft SQL Server 2005

### Introduction

The purpose of this two-day instructor-led course is to teach Business Intelligence (BI) professionals working in enterprise environments to design a BI solution architecture. Students will be taught the importance of keeping all components of the solution and stages of the lifecycle in mind. The first day focuses on foundational standards and practices for the enterprise. The second day focuses on a project-specific lifecycle for capturing requirements and deriving solution architecture.

### Pre-Requisites

Before attending this course, students must have:

- Have foundational conceptual understanding of data warehousing, data marts, and Business Intelligence.
- Have conceptual understanding of the components of SQL Server 2005.
- Have practical experience with OLAP, ETL, and Reporting on the SQL Server 2005 Platform.
- Have foundational understanding of Web-based architecture and Microsoft Windows security.
- 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, and Microsoft Visual SourceSafe.

### Outcomes

At the completion of this course, participants will be able to:

- 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.

### Course Details

Course code: MS 2794

Duration: 2 days

Starting time: 9.00 am

Finishing time: 4.30 pm

Lunch and refreshments are provided.

### Booking guidelines

Contact our Learning Consultants on 1300 86 87246 and we will assist you with your booking.



Learning Solutions

( 1300 86 87246  
1300 TO TRAIN

# Course Outline

## Ø **Module 1: Introduction to Business Intelligence Architecture**

In this module, students will learn about key design principles that should be considered when scoping a BI solution, and about the components of the back end and front end of a BI solution, so that they can design and develop appropriate BI solutions for organizations.

### **Lessons**

- Overview of Business Intelligence
- Overview of Business Intelligence Architecture

### **Lab 1: Identifying Business Intelligence Solution Requirements**

- Examining a BI Solution
- Documenting the BI Architecture

After completing this module, students will be able to:

- Describe the purpose and nature of a business intelligence solution.
- Identify the main components of a comprehensive business intelligence architecture.

## Ø **Module 2: Overview of the Business Intelligence Project Lifecycle**

This module examines the core processes and requirements to achieve a successful Business Intelligence project.

### **Lessons**

- Planning a Business Intelligence Project
- Determining Business Intelligence Requirements
- Revising and Updating a Business Intelligence Project

### **Lab 2: Planning a Business Intelligence Project**

- Identifying Requirements
- Estimating Task Durations

After completing this module, students will be able to:

- Describe the major components of a business intelligence project lifecycle.

- Determine requirements for a business intelligence solution project.
- Revise and update a business intelligence project plan.

## Ø **Module 3: Introduction to Business Intelligence Development**

This module describes how to plan and manage the development process for a Business Intelligence project. It discusses considerations for assembling the development team, managing the development process, testing, and deploying the solution.

### **Lessons**

- Overview of Business Intelligence Development
- Managing Business Intelligence Development
- Determining Data Management Process

### **Lab 3: Developing a Business Intelligence Solution**

- Identifying Team Requirements
- Determining Naming Standard

After completing this module, students will be able to:

- Determine Business Intelligence development requirements and implement a Business Intelligence development project.
- Manage a Business Intelligence development project.
- Determine effective data management processes.

## Ø **Module 4: Designing Business Intelligence Infrastructure**

This module describes how to identify infrastructure requirements for a Business Intelligence solution, and how to design an effective infrastructure to provide the required levels of scalability and availability.

### **Lessons**

- Determining Infrastructure Requirements

- Planning for Scalability and Availability

## **Lab 4: Supporting Business Intelligence Infrastructure Growth**

- Designing a BI Infrastructure
- Evaluating Software Requirements

After completing this module, students will be able to:

- Determine infrastructure requirements for a BI solution.
- Plan for scalability and availability.

## Ø **Module 5: Managing Business Intelligence Operations**

This module explains how to manage and operate a Business Intelligence solution.

### **Lessons**

- Overview of Business Intelligence Operations
- Managing Maintenance and Operations Tasks
- Managing Data Archiving
- Managing Business Intelligence Operations for Business Continuity

### **Lab 5: Using Microsoft Operations Framework (MOF) to Manage Business Intelligence Operations**

- Planning the Operations Solution
- Evaluating Operational Costs and Risks

After completing this module, students will be able to:

- Manage BI operations.
- Identify and plan maintenance and operations tasks for a BI solution.
- Describe considerations for planning and implementing data archiving in a BI solution.
- Describe business continuity and how it applies to BI operations.