

## **Course 515: Microsoft SQL Server 2005 Analysis Services (4 Days)**

### **Course Description...**

This course focuses on the design and analytical part of Business Intelligence by teaching IT professionals how to build and deploy powerful analytical solutions that enable business users to analyze business data and deploy an analytical solution using SQL Server 2005 Analysis Services.

### **Learning Objectives...**

- Understanding Business Intelligence
- Designing Analysis Services cubes
- Implementing dimension and fact tables
- Executing MDX queries
- Securing and deploying analysis cubes
- Configuring disaster recovery for analysis data
- Implementing data mining
- Creating analytical reports using Reporting Services

### **Who should attend...**

This course is for anyone who wants and needs to understand and implement Business Intelligence using Analysis Services.

### **Suggested prerequisites...**

- Basic understand of TSQL Queries
- Understanding of SQL Server 2005 tools
- Understanding of Business Intelligence and Data Warehousing concepts
- Understanding of ETL concepts

**See next page for a detailed course outline...**



## Course Outline...

### Chapter 1: What is Business Intelligence?

- What are we looking for?
- Reviewing Solution Requirements
- Understanding Analysis Services

### Chapter 2: Designing and Implementing an OLAP Solution

- Planning an OLAP Solution
- Designing and Implementing Fact tables
- Designing and Implementing Dimension Tables
- Designing and Implementing Your First Cube
- Designing and Implementing Aggregations and Hierarchies

### Chapter 3: Using MDX and Calculations

- Executing MDX Queries
- Designing and Implementing Custom Members
- Creating Calculated Members

### Chapter 4: Optimizing an OLAP Solution

- Designing and Implementing a Storage Solution
- Understanding and Implementing Partitioning Strategies
- Understanding Storage Modes
- Monitoring Analysis Services
- Optimizing Queries

### Chapter 5: Security and Deployment

- Role-Based Security
- Securing Dimensions
- Deploying an Analysis Services Database
- Automating Database Processing
- Disaster Recovery

### Chapter 6: Implementing Data Mining

- Creating a Data Mining Structure
- Validating a Data Mining Structure

### Chapter 7: Reporting Services

- Create OLAP Reports
- Create Data Mining Reports
- Linking Reports
- Report Caching
- Ad Hoc Reporting