



Microsoft®  
**Visual Studio® 2008**

**Courses**

**ASP.Net + VB.Net + C# + XML + Web Services + Sql Server 2005**

**Certifications**

**MCP, MCTS (ASP.Net, C#)**

*Get the rewards,* respect, and recognition you deserve,  
Become a Microsoft Certified Professional.



**Corporate Trainer's Profile**

Corporate Trainers are having the experience of 4 to 12 years in development , working with TOP CMM level 5 companies (Project Leader /Project Manager ) qualified from NIT/IIT/IIM and work exp in USA and UK.



**CMM (Capability Maturity Model) level Project Standard:-**

The Capability Maturity Model (CMM) is a method for evaluating the maturity of organizations on a scale of 1 to 5. Get the Opportunities to work on Client Projects Of US/UK, which follow the all standard of CMM level 5 Company.

**Projects**





## Developing for SQL Server 2005

### SUMMARY:

This course is designed for those who are developing applications for SQL Server using T-SQL.

### AUDIENCE:

Those who use T-SQL to create scripts batches and applications for SQL Server 2005 using T-SQL

### PREREQUISITES:

Those attending should be familiar with Relational Database Management Systems, their main characteristics and structure.

### DURATION:

5 days

### APPROACH:

The course will be Instructor-led with hands on exercises.

### OBJECTIVES:

At the end of this course, delegates will be able to:

- Use the Management Studio Tools to create applications
- Use T-SQL Code to Administer and manipulate SQL Server databases
- Use T-SQL code to write scripts and batches

### COURSE CONTENT:

#### I.RDBMS Basics

- Overview of Database Objects
- SQL Server Data Types
- SQL Server Identifiers for Objects

#### II.Tools

- Books Online
- SQL Server Configuration Manager
- SQL Server Management Studio
- SQL Server Integration Services (SSIS)
- Bulk Copy Program (bcp)
- SQL Server Profiler
- sqlcmd

#### III.T-SQL Foundation Statements

- Basic SELECT Statement
- INSERT Statement
- UPDATE Statement
- DELETE Statement

#### IV.JOINS

- JOINS
- INNER JOINS
- OUTER JOINS
- FULL JOINS

- CROSS JOINS
- Alternative Syntax for Joins
- UNION

### **V.Creating and Altering Tables**

- Object Names in SQL Server
- CREATE Statement
- ALTER Statement
- DROP Statement
- GUI Tool

### **VI.Constraints**

- Types of Constraint
- Constraint Naming
- Key Constraints
- CHECK Constraints
- DEFAULT Constraints
- Disabling Constraints
- Rules and Defaults
- Triggers for Data Integrity

### **VII.Adding More to Queries**

- Subqueries
- Correlated Subqueries
- Derived Tables
- The EXISTS Operator
- Mixing Datatypes: CAST and CONVERT
- Performance Considerations

### **VIII.Normalization and Design**

- Tables
- Keeping Data "Normal"
- Relationships
- Diagramming
- De-Normalization

### **IX.SQL Server Storage and Index Structures**

- SQL Server Storage
- Indexes
- Creating, Altering, and Dropping Indexes
- Maintaining Indexes

### **X.Views**

- Simple Views
- Complex Views
- Editing Views with T-SQL
- Dropping Views
- Creating and Editing Views in the Management Studio
- Auditing: Displaying Existing Code
- Protecting Code: Encrypting Views
- About Schema Binding
- Making Your View Look Like a Table with VIEW\_METADATA
- Indexed (Materialized) Views

## **XI. Writing Scripts and Batches**

- Script Basics
- Batches
- SQLCMD
- Dynamic SQL

## **XII. Stored Procedures**

- Basic Syntax
- Changing Stored Procedures
- Dropping Stored Procedures
- Parameterization
- Control-of-Flow Statements
- Return Values
- Errors
- Extended Stored Procedures (XPs)
- Recursion
- Debugging
- .NET Assemblies

## **XIII. User Defined Functions**

- What is a UDF
- UDFs Returning a Scalar Value
- UDFs which Return a Table
- Debugging User-Defined Functions
- .NET and Databases

## **XIV. Transactions and Locks**

- Transactions
- SQL Server Log
- Locks and Concurrency
- Isolation Level
- Deadlocks

## **XV. Triggers**

- What is a Trigger?
- Triggers for Data Integrity Rules
- Common Uses for Triggers
- Trigger Issues
- INSTEAD OF Triggers
- Performance Considerations
- Dropping Triggers
- Debugging Triggers

## **XVI. XML Primer**

- XML Basics
- SQL Server and XML
- XSLT

## **XVII. Reporting Services**

- Reporting Services
- Building Report Models
- Report Server Projects

## **XVIII. Integration Services**



## Microsoft.NET Technology (1.1 + 2.0 + 3.0 + 3.5 Version)



- Understanding the Problem
- Import/Export Wizard
- Executing Packages
- Editing Packages

### **XIX.Administration**

- Scheduling Jobs
- Backup and Recovery
- Index Maintenance
- Archiving Data