

## Course Outline

### MICROSOFT SQL SERVER

#### Introduction and Overview -3 Days

This course offers delegates who are new to Microsoft SQL Server an opportunity to explore the main features of both the Database Management System (DBMS) and the T-SQL transaction language which is integral to understanding the operation of MS SQL Server.

**1: Introduction to MS SQL Server**

What is a DBMS?  
SQL Server features.  
The Client/Server model.  
Using the model with other applications.

**2: Installing SQL Server**

Identifying the requirements to install SQL Server.  
Installing SQL Server.

**3: SQL Enterprise Manager**

The GUI Interface.  
Using Enterprise Manager versus T-SQL.  
MS SQL Components.

**4: Designing and implementing Databases**

Developing a strategy for implementing databases.  
Using the Data Replication Services to create a database from a Microsoft Access database.  
Creating a new database.  
    Creating Tables.  
    Joining Tables – Diagrams.  
Using a Microsoft Access Project as a client application to connect to the SQL database.

**5. Introduction to SQL and Transact SQL (T-SQL)**

Introduction to the SQL Language.  
SQL versus Transact-SQL.  
The MS SQL Query Analyser.  
Basic Data Manipulation SQL Statements.  
SELECT and Associated keywords.  
    Aggregate functions.  
    Joining Tables.  
    Update, Delete and Insert statements.  
Basic MS SQL data management using T-SQL statements.

**6. Managing Data within SQL Server**

Stored Procedures.  
Use of parameters with stored procedures.  
Triggers.  
Creating Views.

**7. Server Administration**

Security Components.  
    Creating Login Accounts.  
    Server roles.  
    Database Users.  
    Implementing Permissions.  
Backing Up SQL databases.  
Restoring SQL databases.  
Replication Overview.