

Description:

This course is a soup-to-nuts course that will teach you everything you need to build, configure a server, maintain a SQL Server disaster recovery plan, and how to design and manage a secure solution. You'll learn how to automate daily, weekly, and hourly tasks (like backups), the details of security, SQL Server clustering, replication, disaster recovery, and using jobs and database maintenance tasks.

Objectives:

To understand the process maintained by the server

To analyze the performance issues on the Sql Server

To understand the Disaster Recovery Models

Hands – On Training on Configurations, Installations, Upgrades, Migration, Disaster Recovery Solutions, High Availability

Course Coverage:

Module: 1 - Architecture & Internals of SQL Server Engine

- Introduction to SQL Server 2012
- SQL Server 2012 Editions & Capacity Planning
- Pages & Extents
- Files and File groups
- Thread and Task Architecture
- Memory Architecture
- T-Log Architecture

Module: 2 - Installing, Upgrading, Configuration, Managing Services and Migration

- SQL server 2012 Installation
- Upgrading to SQL server 2008 R2/2012
- Managing services
- Configuring SQL Server 2012
- Migrating SQL server

Module: 3 - Security, Automation & Monitoring

- Automating Administrative Tasks
- Monitoring SQL Server
- Security

Module: 4 - High Availability

- Backup & Restore
- Log Shipping
- Database Mirroring
- AlwaysOn Availability Groups
- Replication

Module: 5 - SQL Server Clustering

- Windows Server 2012 Clustering
- Installing SQL Server 2012 Fail-Over Clustering
- Administering a SQL Server 2012 Failover Cluster
- High Availability: Interoperability and Coexistence

Methodology:

Methodology of the programme includes class room sessions with Lecture and Hands-on Practical / Discussion with audio visual aid, bench marked video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences etc. All the sessions will be interactive demanding active participation from all the members.

Target Participants:

System Administrators, SQL Server Administrators, IT Managers and System Managers

Resource Persons:

Mr. Dileep - Sr. SQL Server Administrators

Mr. Ram Mohan - Sr. SQL Server Administrators

Benefits to the participants

After completion of the course, the participant would be able to understand how effectively an organization can implement the administration task.

Module: 6 - Performance Tuning & Indexing

- Optimizing SQL server
- Indexing
- Locking & Concurrency
- Performance Tuning

Module: 7 - SQL Server 2012 Engine/HA Enhancements

Module: 8 - Corporate Awareness and handling the environment

