1. Course Details:

Course Code : MRSF-005
Course Title : Administering Microsoft SQL Server Databases - 20462C
Course Duration : 5 Days

2. Course Overview:

- This course will teach participants how to maintain a MS SQL Server 2014 database. After completing this module, participants will be able to explain core database administration tasks, restore databases from backups, carry out ongoing database maintenance and set up and configure SQL Server 2014.

3. Learning Outcomes:

- Core database administration tasks and tools
- Install and configure SQL Server 2014
- Configure SQL Server databases and storage
- Plan and implement a backup strategy
- Restore databases from backups and import and export data
- Monitor SQL Server and trace SQL Server activity
- Manage SQL Server security
- Audit data access and encrypt data
- Perform ongoing database maintenance
- Automate SQL Server maintenance with SQL Server Agent jobs
- Configure database mail, alerts, and notifications

4. Course Contents:

Introduction to SQL Server 2014 Database Administration

- Database Administration Overview
- Introduction to the SQL Server Platform
- Database Management Tools and Techniques

Installing and Configuring SQL Server 2014

- Plan SQL Server Installation
- Install SQL Server 2014 and Post-Installation Configuration

Work with Databases and Storage

- Introduction to Data Storage with SQL Server
- Manage Storage for System Databases and User Databases
- Move Database Files
- Configure the Buffer Pool Extension

Plan and Implement a Backup Strategy

- SQL Server Recovery Models
- Plan a Backup Strategy
- Backup Databases and Transaction Logs
- Backup Options and Backup Reliability

Restore SQL Server 2014 Databases

- Restore Process and Databases Restoration
- Advanced Restore Scenarios
- Point-in-Tim Recovery

Import and Export Data

- Transferring Data
- Import and Export Table Data
- Copy or Move a Database

Monitor SQL Server 2014

- Introduction to Monitoring SQL Server
- Dynamic Management Views and Functions
- Performance Monitor

Tracing SQL Server Activity

- Trace SQL Server Workload Activity
- Use Traces

Manage SQL Server Security

- Introduction to SQL Server Security
- Manage Server-Level Security

- Database-Level Principals
- Manage Database Permissions

Audit Data Access and Encrypt Data

- Audit Data Access in SQL Server
- Implement SQL Server Audit
- Encrypt Databases

Perform Ongoing Database Maintenance

- Ensure Database Integrity
- Maintain Indexes
- Automate Routine Database Maintenance

Automate SQL Server 2014 Management

- Implement and Manage SQL Server Agent Jobs
- Manage Job Step Security Contexts
- Manage Job on Multiple Servers

Monitor SQL Server 2014 Using Alerts and Notifications

- Monitor SQL Server Errors
- Configure Database Mail
- Configure Operators, Alerts

5. Our Methodology:

- Make coaching and monitoring innovative and using modern
- Media training also using on the go training by using interactive means and focusing on
- The exercises, practical applications and real situations study
- Live delivery method, instructor-led training
- Experienced consultant, trainers, and professional
- Qualified trainer with high-level experience

6. Attendance Reports:

- Send daily attendance reports to trainingdep
- Send full attendance report to training department by the end of thecourse

- Attend 100 % from the course days also providedaily
- Issue attendance certificate for participant who attend minimum 80% from the course duration

7. Pre/Post Reports:

- Pre- assessment before starting training.
- Post assessment after finish training
- Full report for the deferent between Pre-& Post assessment

8. Who Should Attend?

- Database professionals who administer and maintain SQL Server databases
- Database professionals who work in environments where databases
- Individuals who administer and maintain SQL Server databases
- Individuals who develop applications that deliver content from SQL Server databases