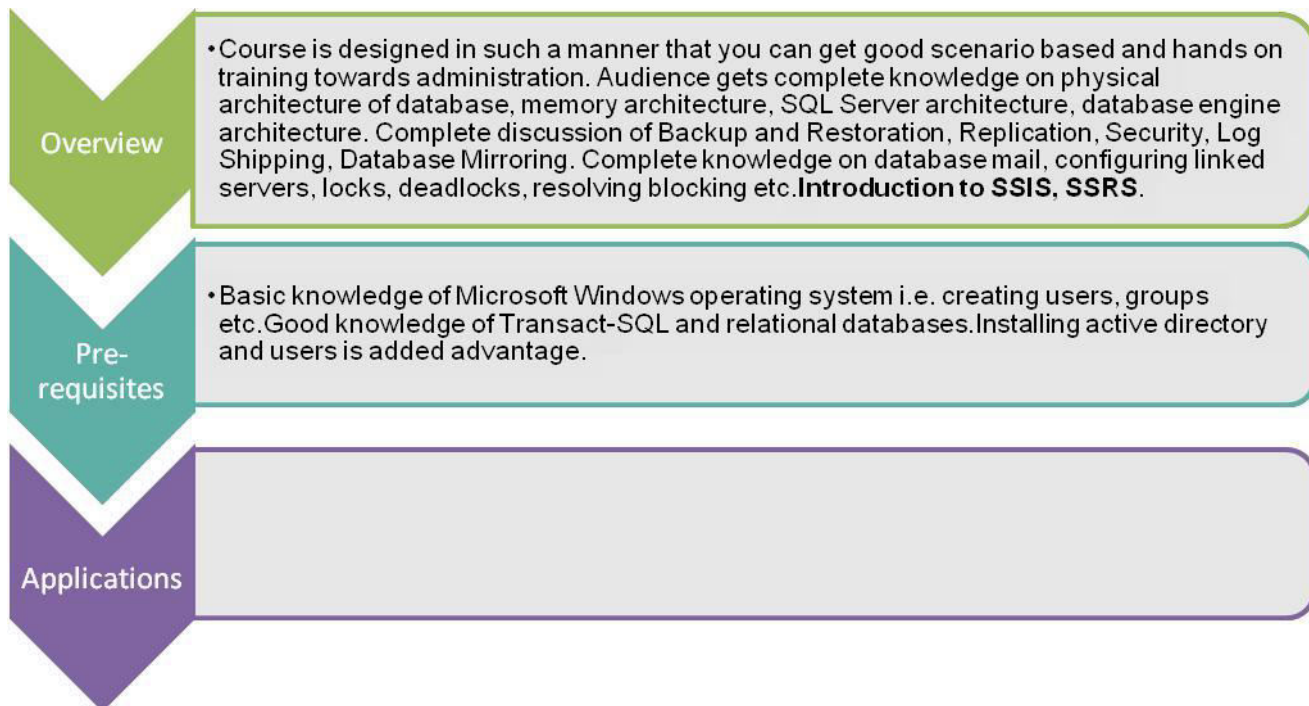


Course Brochure

SQL Server DBA 2012



COURSE CONTENTS

Introduction to DBA

- ❖ Database Environment
- ❖ DBA Types
- ❖ DBA Responsibilities

SQL Server Installation

- ❖ Versions and features of SQL Server
- ❖ Installation Strategy
- ❖ Type of Installation
- ❖ System Requirements
- ❖ Pre-Installation Steps
- ❖ Instance Types
- ❖ Sql Server Services
- ❖ Installation Check List Documents
- ❖ Post Installation steps

SQL Server Environment

- ❖ System Databases
- ❖ User Databases
- ❖ Database Setup
- ❖ Database Architecture
- ❖ Database Configuration
- ❖ SQL Server Architecture
- ❖ SQL Server optimized Configuration
- ❖ **SQL Power Shell Scripts**

Security in SQL Server

- ❖ Securing sql server Instances & Databases
- ❖ Types of Authentications
- ❖ Working with Permission and Roles
- ❖ Fixed Roles & Custom Roles
- ❖ Application Roles
- ❖ Schemas
- ❖ Encryption & Decryptions

Disater Recovery Planning

- ❖ Database Recovery models
- ❖ Backup Strategies
- ❖ Recovery Planning
- ❖ Migrations of Databases & Servers
- ❖ Contained Database
- ❖ Maintaining Backup & Restore History

Automation

- ❖ Configuring database Mail
- ❖ Jobs
- ❖ Operators
- ❖ Alerts
- ❖ Monitoring of Automation tasks

High Availability

- ❖ Need to High Availability
- ❖ Log Shipping
- ❖ Database Mirroring
- ❖ Clustering
- ❖ Always On

Replication

- ❖ Introduction to Repilcation
- ❖ Configuring Replication (publisher, subscriber, Distributor)
- ❖ Types of Replication (snapshot, transactional, Merge, Peers-to-Peer)
- ❖ Replication Topologies
- ❖ Monitoring Replication

Monitoring The Database System

- ❖ Windows and SQL Server Event Logs
- ❖ User Activity Tracking
- ❖ Performance base Line
- ❖ CPU, RAM and I/O Utilization
- ❖ Performance Monitor

COURSE CONTENTS

- ❖ SQL Server Profiler
- ❖ Database Level Tuning
- ❖ Query /SP Tuning

- ❖ Resource Governor
- ❖ CDC (Change Data capture)
- ❖ Data Collection

DBA practical Usage Of:

- ❖ DMV and DMF
- ❖ System Stored Procedures
- ❖ System Tables and Catalog Views

Objects Level Maintenance

- ❖ Data Partitions
- ❖ Indexes fragmentation
- ❖ Statistics updation
- ❖ Consistency & Data integrity Check[DBCC]
- ❖ Copying Objects from One Server to Another Server
- ❖ Script based Backup of Objects

Upgrading To SQL Server 2012

- ❖ Upgradation Strategies
- ❖ Upgrade Advisor

Business Intelligence Administration

- ❖ Installing BI Components
- ❖ Configuration of BI
- ❖ Security in Integration, Reporting & Analysis Services

Third Party Tools

- ❖ Sql DoctorSql virtual database
- ❖ Sql admin toolset
- ❖ Sql Traffic Accelator
- ❖ Sql Diagnostic Manager