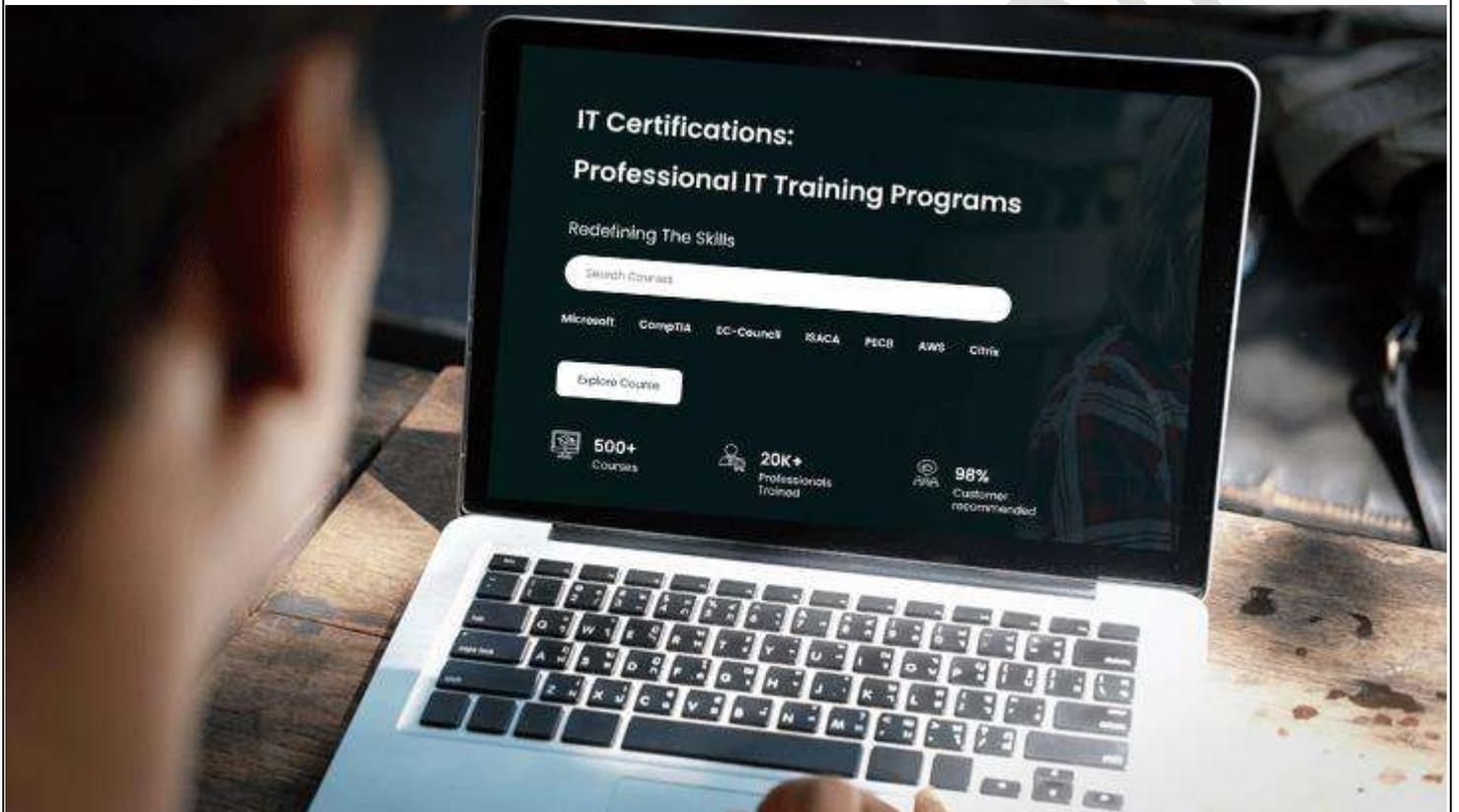IT Certifications:
Professional IT Training Programs

Redefining The Skills

55069: POWERSHELL FOR SQL SERVER ADMINISTRATORS TRAINING

Duration: 2 Days

Course Description

This course guides learners on how to use PowerShell and SMO features to administer SQL Server. Students learn to maintain daily and scheduled maintenance works.

The key focus is kept on Database Engine administration however, SSAS (Analysis Services) and SSIS (Integration Services) related exercises are also covered in the course.

This training is designed based on the objectives of the course variant 55069A.

Training Exclusives

- Live instructor-led interactive sessions with Microsoft Certified Trainers (MCT).
- Access to Microsoft Official Courseware (MOC).
- Real-time Virtual Lab Environment.
- Experience 24*7 Learner Support.
- Self-paced learning and flexible schedules.

Who should attend this course?

- The course is meant for SQL server admins working with Windows Network. The ideal candidate must have some real-world experience with SQL server administration using PowerShell.

What you will learn

- Using PowerShell to Install and Configure components of SQL Server.
- Manage the administration of SQL Server with PowerShell
- Using PowerShell programming and scripting options to maintain SQL Server environment

Curriculum

Module 1: Install and Configure SQL Server with PowerShell

This module explains how to setup SQL Server components using PowerShell.

- Install SQL Server
- Configure Database Settings
- Configure SQL Server Settings
- Configure SQL Server Policy-Based Management
- Review

Lab: Install and Configure SQL Server with PowerShell

- Install SQL Server
- Configure Database Settings
- Configure SQL Server Settings
- Configure SQL Server Policy-Based Management

After completing this module, students will be able to:

- Use PowerShell to Install SQL Server Instances
- Use PowerShell to Add/Remove components to an existing instance (SSRS, SSIS, SSAS, Tools, etc.)
- Use PowerShell to configure SQL Server and Database Settings

- Use PowerShell to configure SQL Server Policy-Based Management

Module 2: Administering SQL Servers with PowerShell

This module explains how to perform day-to-day administrative tasks on SQL Server Instances using PowerShell.

- Managing Users and Roles
- Managing Database Performance
- Managing Database Availability
- Managing SQL Server Features
- Review

Lab: Administering SQL Servers with PowerShell

- Managing Users and Roles
- Managing Database Performance
- Managing Database Availability
- Managing SQL Server Features

After completing this module, students will be able to:

- Use PowerShell to Manage Users and Roles
- Use PowerShell to Manage Database Performance
- Use PowerShell to Manage Database Availability (Using Clustering and AlwaysOn Availability Features)
- Use PowerShell to Manage Integration Services (SSIS) and Analysis Services (SSAS)

Module 3: Maintaining SQL Server with PowerShell

This module explains how to perform maintenance tasks on SQL Server Instances using PowerShell.

- Managing Backups and Restores
- Maintaining Database Integrity and Performance
- Monitoring and Auditing
- Task Automation
- Generating Reports
- Review

Lab: Maintaining SQL Server with PowerShell

- Managing Backups and Restores
- Maintaining Database Integrity and Performance
- Monitoring and Auditing
- Task Automation
- Generating Reports

After completing this module, students will be able to:

- Use PowerShell to Manage SQL Server Backups and Restores
- Use PowerShell to Maintain Database Integrity and Performance (Using DBCC and other tools)
- Use PowerShell to Monitor and Audit changes to a SQL Server Instance
- Use PowerShell for Task Automation on SQL Server
- Use PowerShell to Generate SQL Server Reports

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