



55069 – PowerShell for SQL Server Administrators

Course ID #: 7000-658-ZZ-Z

Hours: 14

Course Content

Course Description:

In this course, you will cover how to manage day-to-day and scheduled maintenance tasks. The main focus will be administration of the database engine, but optional material & exercises on Analysis Services (SSAS) and Integration Services (SSIS) are also included. This course provides students with the knowledge and skills needed to use PowerShell and SMO components for SQL Server administration on SQL Server 2016, 2014 or 2012.

Course Objectives:

- Install and Configure SQL Server and all its components using PowerShell
- Manage day-to-day SQL Server Administration with PowerShell
- Maintain the SQL Server environment using PowerShell scripting and programming options

Prerequisites:

- Experience working on Windows desktops or servers
- Experience working in a Windows domain environment
- Experience Administering SQL Server Servers
- Fundamental experience with PowerShell or Course 10961B - Automating Administration with Windows PowerShell

Target Audience:

This course is intended for SQL Server administrators who work in a Windows network environment. At least one year of experience administering SQL Servers and using PowerShell is recommended.

Topics:

Lesson 1: Install and Configure SQL Server with PowerShell

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

Lab: Configuring SQL Server with PowerShell

Lesson 2: Administering SQL Servers with PowerShell

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

Lab: Administering SQL Servers with PowerShell



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Lesson 3: Maintaining SQL Server with PowerShell

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

Lab: Maintaining SQL Servers with PowerShell

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