

<b>10961BC</b>	<b>Automating Administration with Windows PowerShell</b>	<b>5 DAYS</b>	<b>SATV : YES</b>
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## Course Description

Learn how with Windows PowerShell 4.0, you can remotely manage multiple Windows based servers and automate day to day management and administration tasks. The course is built on Windows Server 2012 R2 and Windows 8.1 and while it is specifically focused on Windows PowerShell v4.0, is also relevant in v2.0 and v3.0 Windows PowerShell environments This five day course provides students with the fundamental knowledge and skills to use Windows PowerShell 4.0 for administering and automating administration of Windows based servers. It focuses on primary Windows PowerShell command-line features and techniques, and will provide pre-requisite skills supporting a broad range of Microsoft products, including Windows Server, Windows Client, Exchange Server, SharePoint Server, SQL Server, System Center, and more. In keeping with that goal, this course will not focus on any one of those products, although Windows Server (which is the common platform for all of those) will serve as the example for the techniques being taught. In this five day course you will learn to execute and monitor scripts more efficiently through more robust session connectivity, workflow capabilities, enhanced job scheduling, and Windows PowerShell Web Access. Learn Windows PowerShell with greater ease through improved cmdlet discovery and simplified, consistent syntax across all cmdlets. Write Windows PowerShell scripts quicker and more intuitively through the new Integrated Scripting Environment (ISE) that enables script sharing, which connects IT pros to a larger Windows PowerShell user community. Learn all this and more in this five-day Microsoft Official Course in Windows PowerShell 4.0.

## Course Outline

### Module 1: Getting Started with Windows PowerShell

- Overview and Background
- Finding and Learning Commands
- Running Commands

### Module 2: Working with the Pipeline

- Understanding the Pipeline
- Selecting, Sorting, and Measuring Objects
- Converting, Exporting, and Importing Objects
- Filtering Objects Out of the Pipeline
- Enumerating Objects in the Pipeline

### Module 3: Understanding How the Pipeline Works

- Passing Data in the Pipeline By Value
- Passing Data in the Pipeline By Property Name

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#### **Module 4: Using PSProviders and PSDrives**

- Using PSProviders
- Using PSDrives

#### **Module 5: Formatting Output**

- Using Basic Formatting
- Using Advanced Formatting
- Redirecting Formatted Output

#### **Module 6: Querying Management Information by Using WMI and CIM**

- Understanding WMI and CIM
- Querying Data with WMI and CIM
- Making Changes by Using WMI and CIM

#### **Module 7: Preparing for Scripting**

- Using Variables
- Scripting Security

#### **Module 8: Moving From a Command to Script to Module**

- Moving From Command to Script
- Moving From Script to Function to Module
- Implementing Basic Error Handling
- Using Basic Scripting Constructs
- Exploring Other Scripting Features

#### **Module 9: Administering Remote Computers**

- Using Basic Remoting
- Using Advanced Remoting Techniques
- Using Remoting Sessions

#### **Module 10: Putting it All Together**

- Provisioning a New Server Core Instance

#### **Module 11: Using Background Jobs and Scheduled Jobs**

- Using Background Jobs
- Using Scheduled Jobs

#### **Module 12: Using Profiles and Advanced PowerShell Techniques**

- Using Advanced PowerShell Techniques
- Creating Profile Scripts
- Working With Alternative Credentials