



## **AZ-040T00: Automating Administration with PowerShell**

**Course Duration:** 5 Days

**Class times:** 9am-4pm

**Course Level:** Advance

**Language:** English

**Mode of Training:** Virtually Instructor-Led

### **Prerequisites**

Job Role: Administrator

Related Exam:

### **Audience Profile:**

This course is intended for IT Professionals who are already experienced in general Windows Server, Windows client, Azure, and Microsoft 365 administration, and who want to learn more about using Windows PowerShell for administration. No prior experience with any version of PowerShell or any scripting language is assumed. This course is also suitable for IT Professionals already experienced in server administration, including Microsoft Exchange Server, Microsoft SharePoint Server, and Microsoft SQL Server.

### **Course Outline**

#### **Module 1: Review Windows PowerShell**

This module introduces you to Windows PowerShell and its versions. It discusses commonly used host applications. It explains how to use Microsoft Visual Studio Code (VS Code) to develop PowerShell scripts.

#### **Learning objectives**

Upon completion of this module, the learner will be able to:

- Describe Windows PowerShell and its major versions.
- Identify the common Windows PowerShell hosting applications.
- Describe points to consider when using PowerShell.

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- Explain how to configure the Windows PowerShell console host.
- Explain how to configure the Windows PowerShell ISE host.
- Describe how to use VS Code for PowerShell scripting.

## **Module 2: Understand the command syntax in Windows PowerShell**

This module covers the cmdlet structure and parameters for using Windows PowerShell cmdlets. It also explains how to use tab completion and how to display About files content.

### **Learning objectives**

Upon completion of this module, the learner will be able to:

- Describe cmdlet structure.
- Identify how to use Windows PowerShell parameters.
- Explain how to use tab completion.
- Explain how to display the About files content.
- Use About files.

## **Module 3: Find commands and Get-Help in Windows PowerShell**

This module explains how to find Windows PowerShell cmdlets that you can use to perform specific tasks. It also covers how to use Get-Help to retrieve detailed information about a cmdlet and its parameters.

### **Learning objectives**

Upon completion of this module, the learner will be able to:

- Describe the relationship between modules and cmdlets.
- Identify options for finding cmdlets.
- Describe aliases.
- Use aliases.
- Explain how to use Show-Command.



- Explain how to use Get-Help.
- Review help.
- Explain how to interpret the help file contents.
- Explain how to update the local help content.

#### **Module 4: Manage Active Directory Domain Services using PowerShell cmdlets.**

This module covers the cmdlets that are used to administer Active Directory Domain Services.

##### **Learning objectives**

Upon completion of this module, the learner will be able to:

- Identify user management cmdlets.
- List group management cmdlets.
- Manage users and groups.
- Describe the cmdlets for managing computer objects.
- Describe the cmdlets for managing organizational units (OUs).
- Describe the cmdlets for managing Active Directory objects.
- Manage Active Directory objects.

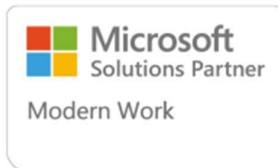
#### **Module 5: Manage network service settings for Windows devices using PowerShell cmdlets.**

This module covers the PowerShell modules and cmdlets that are used to configure network settings for Windows devices.

##### **Learning objectives**

Upon completion of this module, the learner will be able to:

- Identify cmdlets for managing TCP/IP settings.
- Describe how to manage local routing table settings.
- Describe how to modify DNS client configuration.
- List cmdlets for managing Windows Firewall.



- Configure network settings.