

10962BC	Advanced Automated Administration with Windows PowerShell	3 DAYS	SATV : YES
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Course Description

Learn how to automate and streamline day to day management and administration tasks and functions in your Windows Server Infrastructure. This three-day course is a follow on course from the 10961B: Automating Administration with Windows PowerShell course. It is built on Windows Server 2012 R2 and Windows 8.1 and while it is specifically focussed on Windows PowerShell v4.0, is also relevant in v2.0 and v3.0 Windows PowerShell environments. Expand and build upon the knowledge already acquired in course 10961B and focus on building more scalable and usable Windows PowerShell scripts for use in your organization by building your own Windows PowerShell tools. Learn about areas such as the creation of advanced functions, script modules, advanced parameters attributes and controller scripts.

Course Outline

Module 1: Creating Advanced Functions

- Converting a Command into an Advanced Function
- Creating a Script Module
- Defining Parameter Attributes and Input Validation
- Writing Functions that use Multiple Objects
- Writing Functions that Accept Pipeline Input
- Producing Complex Function Output
- Documenting Functions by using Content-Based Help
- Supporting -Whatif and -Confirm

Module 2: Using Cmdlets and Microsoft .NET Framework in Windows PowerShell

- Running Windows PowerShell Commands
- Using Microsoft .NET Framework in Windows PowerShell

Module 3: Writing Controller Scripts

- Understanding Controller Scripts
- Writing Controller Scripts that Show a User Interface
- Writing Controller Scripts That Produce Reports

Module 4: Handling Script Errors

- Understanding Error Handling
- Handling Errors in a Script

Module 5: Using XML Data Files

- Reading, Manipulating and Writing Data in XML

Module 6: Managing Server Configurations by Using Desired State Configuration

- Understanding Desired State Configuration
- Creating and Deploying a DSC Configuration

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Module 7: Analyzing and Debugging Scripts

- Debugging in Windows PowerShell
- Analyzing and Debugging and Existing Script

Module 8: Understanding Windows PowerShell Workflow

- Understanding Windows PowerShell Workflow
After completing this module, students will be able to:
- Describe the Workflow feature of Windows PowerShell.