

3 Days

## 10962: Advanced Automated Administration with Windows PowerShell

Advanced Automated Administration with Windows PowerShell training is a three-day course followed by the course 10961B: Automating Administration with Windows PowerShell course. The technology of the course curriculum is built on Windows Server 2012 R2 and Windows 8.1 and while the course emphasises on Windows PowerShell v4.0, it is also relevant in v2.0 and v3.0 Windows PowerShell environments.

This course will provide a perfect blend of hands-on labs combined with in-depth content and learning that will help remove manual tasks that you may currently be performing as an Administrator, facilitating your Windows PowerShell tools to be more automated, repeated, accurate management and provide healthy provisioning of your Windows Server infrastructure.

**Completion of this course will enable candidates in:**

- Creating Advanced Functions
- Using Cmdlets and Microsoft .NET Framework in Windows PowerShell
- Writing Controller Scripts
- Handling Script Errors
- Using XML Data Files
- Analyzing and Debugging Scripts
- Understanding Windows PowerShell Workflow
- Managing Server Configurations by Using Desired State Configuration

## Course Details

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### Course Outline

#### Module 1: Creating Advanced Functions

- Convert a Command into an Advanced Function
- Create a Script Module
- Define Parameter Attributes and Input Validation
- Write Functions that use Multiple Objects

- Write Functions that Accept Pipeline Input
- Produce Complex Function Output
- Support -Whatif and -Confirm
- Document Functions by using Content-Based Help

#### **Module 2: Deploying Cmdlets and Microsoft .NET Framework in Windows PowerShell**

- Run Windows PowerShell Commands
- Use Microsoft .NET Framework in Windows PowerShell

#### **Module 3: Writing Controller Scripts**

- Understand Controller Scripts
- Write Controller Scripts That Produce Reports
- Write Controller Scripts that Show a User Interface

#### **Module 4: Handling Script Errors**

- Understand Error Handling
- Handle Errors in a Script

#### **Module 5: Using XML Data Files**

- Read, Manipulate and Write Data in XML

#### **Module 6: Managing Server Configurations by Using Desired State Configuration**

- Understand Desired State Configuration
- Create and Deploy a DSC Configuration

#### **Module 7: Analysing and Debugging Scripts**

- Debugging in Windows PowerShell
- Analyse and Debug an Existing Script

#### **Module 8: Understanding Windows PowerShell Workflow**

- Understand Windows PowerShell Workflow

## Who Should Attend

This course is primarily beneficial for:

- IT Professionals having experience in general Windows Server and Windows Client administration

- System, Infrastructure and Application Administrators who are working in a Windows or Windows hybrid environment
- IT Professionals who are wanting to build upon existing Windows PowerShell knowledge to build their own tools for broader general use in their organisation.

## Pre Requisite

Before attending this course, candidates must have:

- Knowledge of Windows PowerShell or skill set equivalent to the content covered in course 10961B: Automating Administration with Windows PowerShell
- Experience in general Windows Server and Windows Client administration
- Experience in administering and supporting Application servers

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