55318 Advanced Automated Administration with Windows PowerShell

Category: Infrastructure & IT Operations | **Vendor:** Microsoft Technical

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This three-day course teaches students how to automate administrative tasks using PowerShell. Students will learn crucial scripting skills such as creating advanced functions, writing controller scripts, and handling script errors. Candidates will learn how to use PowerShell when working with Microsoft Azure, SQL Server, Active Directory, IIS, Windows PowerShell Workflow, .NET resources, the REST API and XML, CSV & JSON formatted data files.

About This Course

This three-day course teaches students how to automate administrative tasks using PowerShell. Students will learn crucial scripting skills such as creating advanced functions, writing controller scripts, and handling script errors. Candidates will learn how to use PowerShell when working with Microsoft Azure, SQL Server, Active Directory, IIS, Windows PowerShell Workflow, .NET resources, the REST API and XML, CSV & JSON formatted data files.

Who Should Attend

This course is intended for IT professionals who are experienced in general Windows Server and Windows Client administration. Students should have a foundational knowledge of Windows PowerShell, which they can obtain by taking course 10961C: Automating Administration with Windows PowerShell. In addition, this course provides scripting guidance for Microsoft Azure administrators and developers who support development environments and deployment processes.

Prerequisites & Entry Requirements

General Prerequisites:

AZ-040T00 Automating Administration with Powershell

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Create advanced functions. Use Microsoft .NET Framework and REST API in Windows PowerShell. Handle script errors. Use XML, JSON, and custom formatted data. Manage Microsoft Azure resources Analyze and debug scripts Understand Windows PowerShell workflow.

Detailed Course Outline

1 - Creating advanced functions

- Lesson 1: Converting a command into an advanced function
- Lesson 2: Creating a script module
- Lesson 3: Defining parameter attributes and input validation
- Lesson 4: Writing functions that accept pipeline input
- Lesson 5: Producing complex pipeline output
- Lesson 6: Using comment-based Help
- Lesson 7: Using Whatif and Confirm parameters

2 - Using Microsoft .NET Framework and REST API in Windows PowerShell

- Lesson 1: Using .NET Framework in PowerShell
- Lesson 2: Using REST API in PowerShell

3 - Writing controller scripts

- Lesson 1: Understanding controller scripts
- Lesson 2: Writing controller scripts with a user interface
- Lesson 3: Writing controller scripts that create reports

4 - Handling script errors

- Lesson 1: Understanding error handling
- Lesson 2: Handling errors in a script

5 - Using XML, JSON, and custom-formatted data

- Lesson 1: Working with XML formatted data
- Lesson 2: Working with JSON formatted data
- Lesson 3: Working with custom-formatted data

6 - Enhancing server management with Desired State Configuration and Just Enough Administration

- Lesson 1: Implementing Desired State Configuration
- Lesson 2: Implementing Just Enough Administration

7 - Analyzing and debugging scripts

- Lesson 1: Debugging in Windows PowerShell
- Lesson 2: Analyzing and debugging an existing script

8 - Understanding Windows PowerShell Workflow

- Lesson 1: Understanding Windows PowerShell Workflows
- Lesson 2: Running Windows PowerShell Workflows

Upcoming Schedule

Available training dates for 55318 Advanced Automated Administration with Windows PowerShell:

Start Date	End Date	Location	Delivery	Price
06 Jan 2027	08 Jan 2027	Online	Virtual	€1,895.00

Frequently Asked Questions

Q: What delivery options are available for 55318 Advanced Automated Administration with Windows PowerShell?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day 55318 Advanced Automated Administration with Windows PowerShell course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the 55318 Advanced Automated Administration with Windows PowerShell training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for 55318 Advanced Automated Administration with Windows PowerShell?

Yes, we provide corporate training, dedicated training, and closed classes for 55318 Advanced Automated Administration with Windows PowerShell. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for 55318 Advanced Automated Administration with Windows PowerShell?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your 55318 Advanced Automated Administration with Windows PowerShell training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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