

Microsoft Partner

Gold Learning

Course Outline

Module 1: Creating advanced functions

This module explains how to parameterize a command into an advanced function.

Lessons

- Converting a command into an advanced function
- · Creating a script module
- Defining parameter attributes and input validation
- · Writing functions that accept pipeline input
- Producing complex pipeline output
- Documenting functions by using comment-based help
- Supporting –WhatIf and -Confirm

Lab: Converting a command into an advanced function

Converting a command into an advanced function

Lab: Creating a script module

Creating a script module

Lab: Defining parameter attributes and input validation

Defining parameter attributes and input validation

Lab: Writing functions that accept pipeline input

Writing functions that accept pipeline input

Lab: Producing complex pipeline output

Producing complex pipeline output

Lab: Documenting functions by using comment-based help

Documenting functions by using comment-based help

Lab: Supporting –WhatIf and -Confirm

Supporting –WhatIf and -Confirm





After completing this module, students will be able to:

- Convert a command into an advanced function.
- Create a script module.
- Define parameter attributes and input validation.
- Write functions that accept pipeline input.
- Produce complex pipeline output.
- Document functions by using comment-based help.
- · Support -WhatIf and -Confirm.

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

This module explains how to use Microsoft .NET Framework and REST API to supplement functionality that Windows PowerShell commands provide.

Lessons

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

Lab: Using Microsoft .NET Framework in Windows PowerShell

Using Microsoft .NET Framework in Windows PowerShell

Lab: Using REST API in Windows PowerShell

Using REST API in Windows PowerShell

- Use Microsoft .NET Framework in Windows PowerShell.
- Use REST API in Windows PowerShell.





Module 3: Writing controller scripts

This module explains how to combine advanced functions that perform a specific task and a controller script that provides a user interface or automates a business process.

Lessons

- Introducing controller scripts
- · Writing controller scripts that display a user interface
- Writing controller scripts that produce reports

Lab: Writing controller scripts

- Writing controller scripts that display a user interface
- Writing controller scripts that implement a text-based menu

Lab: Writing controller scripts that produce HTML reports

- Writing functions to be used in the controller script
- Writing a controller script that produces HTML reports

After completing this module, students will be able to:

- Describe controller scripts.
- Write controller scripts that display a user interface.
- Write controller scripts that produce reports.

Module 4: Handling script errors

This module explains how to perform basic error handling in scripts.

Lessons

- Understanding error handling
- Handling errors and timeouts in a script

Lab: Handling errors in a script

Handling errors in a script

- Describe error handling.
- Handle errors and timeouts in a script.







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

This module explains how to read, manipulate, and write data in XML and JSON format.

Lessons

- Reading, manipulating, and writing XML-formatted data
- Reading, manipulating, and writing JSON-formatted data
- · Reading and manipulating custom-formatted data

Lab: Reading, manipulating, and writing XML-formatted data

- Testing the provided tools
- · Updating an XML inventory document

- Read, manipulate, and write XML-formatted data.
- Read, manipulate, and write JSON-formatted data.
- Read and manipulate custom-formatted data.





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

This module explains how to write Desired State Configuration (DSC) configuration files, deploy those files to servers, and monitor servers' configurations. This module also explains how to restrict administrative access with Just Enough Administration (JEA).

Lessons

- Understanding Desired State Configuration
- Creating and deploying a DSC configuration
- Implementing Just Enough Administration

Lab: Creating and deploying a DSC configuration

Creating and deploying a DSC configuration

Lab: Configuring and using JEA

Configuring and using JEA

- Understand DSC.
- Create and deploy a DSC configuration.
- Implement JEA.





Module 7: Analyzing and debugging scripts

This module explains how to use native Windows PowerShell features to analyze and debug existing scripts.

Lessons

- Debugging in Windows PowerShell
- Analyzing and debugging an existing script

Lab: Analyzing and debugging an existing script

Analyzing and debugging an existing script

After completing this module, students will be able to:

- Debug in Windows PowerShell.
- Analyze and debug an existing script.

Module 8: Understanding Windows PowerShell Workflow

This module explains the features of the Windows PowerShell Workflow technology.

Lessons

Understanding Windows PowerShell Workflow

Lab: Creating and running a Windows PowerShell Workflow

Creating and running a Windows PowerShell Workflow

After completing this module, students will be able to describe and implement the Workflow feature of Windows PowerShell.







Para más información, contáctenos al correo: informes@netecdigital.com

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