

MWS3-8 - MOC 10962 - ADVANCED AUTOMATED ADMINISTRATION WITH WINDOWS POWERSHELL

Categoria: **Windows Server 2016**

INFORMAZIONI SUL CORSO



Durata:
3 Giorni



Categoria:
Windows Server 2016



Qualifica Istruttore:
**Microsoft Certified
Trainer**



Dedicato a:
Professionista IT



Produttore:
Microsoft

OBIETTIVI

After completing this course, students will be able to:

- Create advanced functions.
- Use Microsoft .NET Framework and REST API in Windows PowerShell.
- Write controller scripts.
- Handle script errors.
- Use XML, JSON, and custom formatted data.
- Enhance server management with Desired State Configuration and Just Enough Administration.
- Analyze and debug scripts
- Understand Windows PowerShell workflow.

PREREQUISITI

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- Experience with Windows networking technologies and implementation.
- Experience with Windows Server administration, maintenance, and troubleshooting.
- Experience with Windows Client administration, maintenance, and troubleshooting.
- Experience with using Windows PowerShell to run commands and to create basic non-modularized scripts.

Students who attend this training can meet the prerequisites by obtaining equivalent knowledge and skills through practical experience as a Windows System Administrator. Course 10961: Automating Administration with Windows PowerShell is strongly recommended to obtain prerequisite skills in Windows PowerShell.

CONTENUTI

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 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

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

- 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

Module 3: Writing controller scripts

- 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

Module 4: Handling script errors

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

Lab: Handling errors in a script

- Handling errors in a script

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

- 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

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

- 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

Module 7: Analyzing and debugging scripts

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

Lab: Analyzing and debugging an existing script

- Analyzing and debugging an existing script

Module 8: Understanding Windows PowerShell Workflow

- Understanding Windows PowerShell Workflow

Lab: Creating and running a Windows PowerShell Workflow

- Creating and running a Windows PowerShell Workflow

INFO

Materiale didattico: Materiale didattico in formato digitale

Costo materiale didattico: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)