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

Categoria: **Windows Server 2016**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
3 Giorni	Windows Server 2016	Microsoft Certified Trainer	Professionista IT	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)