# MS10962 - Advanced Automated Administration With Windows PowerShell

Microsoft - PowerShell - Sistemistica

| Durata: | Lingue: | Certificazione: |
|---|---|---|
| **3 Giorni** | **Italiano** | **-** |

## Descrizione del corso

This is a three-day course that will teach how to automate administrative tasks using Windows PowerShell 5.1. Students will learn core scripting skills such as creating advanced functions, writing controller scripts, and handling script errors. Students will learn how to works with Windows PowerShell Workflow, the REST API and XML and JSON formatted data files and will also learn how to use new administration tools such Desired State Configuration (DSC) and Just Enough Administration (JEA) to configure and secure servers.

## Programma

### 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

### 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

**Module 3: Writing controller scripts**

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

**Module 4: Handling script errors**

- Understanding error handling
- Handling errors and timeouts 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

**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

**Module 7: Analyzing and debugging scripts**

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

**Module 8: Understanding Windows PowerShell Workflow**

- Understanding Windows PowerShell Workflow