

# MAZR-20 - MOC AZ-040T00 - AUTOMATING ADMINISTRATION WITH WINDOWS POWERSHELL

Categoria: **Azure**

## INFORMAZIONI SUL CORSO



**Durata:**  
5 Giorni



**Categoria:**  
Azure



**Qualifica Istruttore:**  
Microsoft Certified  
Trainer



**Dedicato a:**  
Professionista IT



**Produttore:**  
Microsoft

## OBIETTIVI

This course provides students with the fundamental knowledge and skills to use PowerShell for administering and automating administration of Windows servers. This course provides students the skills to identify and build the command they require to perform a specific task. In addition, students learn how to build scripts to accomplish advanced tasks such as automating repetitive tasks and generating reports. This course provides prerequisite skills supporting a broad range of Microsoft products, including Windows Server, Windows Client, Microsoft Azure, and Microsoft 365. In keeping with that goal, this course will not focus on any one of those products, although Windows Server, which is the common platform for all of those products, will serve as the example for the techniques this course teaches.

## PREREQUISITI

Before attending this course, students must have:

- Experience with Windows networking technologies and implementation.
- Experience with Windows Server administration, maintenance, and troubleshooting.

## CONTENUTI

**Review Windows PowerShell**

**Understand the command syntax in Windows PowerShell**

**Find commands and Get-Help in Windows PowerShell**

**Manage Active Directory Domain Services using PowerShell cmdlets**

**Manage network service settings for Windows devices using PowerShell cmdlets**

**Manage Windows Server settings using PowerShell cmdlets**

Manage settings for a local Windows machine using PowerShell cmdlets

Understand the Windows PowerShell pipeline

Select, sort, and measure objects using the pipeline

Filter objects out of the pipeline

Enumerate objects in the pipeline

Send and pass data as output from the pipeline

Pass pipeline objects

Connect with data stores using PowerShell providers

Use PowerShell drives in PowerShell

Review CIM and WMI

Query configuration information by using CIM and WMI

Query and manipulate repository objects by using CIM and WMI methods

Manage variables in Windows PowerShell scripts

Work with arrays and hash tables in Windows PowerShell scripts

Create and run scripts by using Windows PowerShell

Work with scripting constructs in Windows PowerShell

Import data in different formats for use in scripts by using Windows PowerShell cmdlets

Use methods to accept user inputs in Windows PowerShell scripts

Troubleshoot scripts and handle errors in Windows PowerShell

Use functions and modules in Windows PowerShell scripts

Manage single and multiple computers by using Windows PowerShell remoting

Use advanced Windows PowerShell remoting techniques

Manage persistent connections to remote computers by using Windows PowerShell sessions

Review Azure PowerShell module

Review the features and tools for Azure Cloud Shell

Manage Azure resources with Windows PowerShell

Manage users, groups, and licenses in Azure AD by using Windows PowerShell

**Manage Exchange Online by using Windows PowerShell**

**Manage SharePoint Online by using Windows PowerShell**

**Manage Microsoft Teams by using Windows PowerShell**

**Create and manage background jobs using Windows PowerShell**

**Create and manage scheduled jobs using Windows PowerShell**

## INFO

**Materiale didattico:** Materiale didattico ufficiale Microsoft in formato digitale

**Costo materiale didattico:** incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)