PowerShell, automating Windows administration
Official course AZ-040-T00

Hands-on course of 5 days - 35h
Ref.: PWV - Price 2026: 3 230 (excl. taxes)

With this course, you'll learn how to use PowerShell to administer and automate the management of Windows servers. You'll be able to identify and build the commands needed for your tasks, create scripts to automate repetitive actions and generate reports. These skills will prepare you to manage various Microsoft products such as Windows Server, Azure and Microsoft 365.

EDUCATIONAL OBJECTIVES
At the end of the training, the trainee will be able to:

Understanding the basics of PowerShell and how it works

Identify and create the commands needed for administration

Automate repetitive tasks with PowerShell scripts

Manage Windows servers with PowerShell

Generate automated reports

Apply PowerShell to the administration of Microsoft products such as Windows Server, Azure and Microsoft 365

TEACHING METHODS

Training in French. Official Microsoft course material (digital MOC) in English.

CERTIFICATION
Official course without certification.

THE PROGRAMME

last updated: 11/2025

1) Discover Windows PowerShell
- Understand the basics of PowerShell.
- Execute commands and locate cmdlets.
- Automate tasks and write simple scripts.

2) Maintain system administration tasks with PowerShell
- Manage Active Directory Domain Services with PowerShell cmdlets.
- Configure network parameters on Windows devices via PowerShell.
- Manage Windows Server settings with PowerShell.
- Administer a local Windows machine with PowerShell cmdlets.

3) Working with the Windows PowerShell pipeline
- Understanding the pipeline in Windows PowerShell.
- Select, sort and measure objects via the pipeline.
- Filter objects with Where-Object.
- List objects in the pipeline.
- Send and transmit data via pipeline output.
- Transmit objects in downstream orders.

4) Using PowerShell providers and readers
- Connect to databases with PowerShell providers.

- Using PowerShell drives.

5) Querying management information with CIM and WMI
- Review CIM and WMI.
- Query configuration information with CIM and WMI.
- Interrogate and manipulate repository objects using CIM and WMI methods.

DATES

REMOTE CLASS
2026 : 09 mars, 18 mai, 20 juil.,
07 déc.