**ITTcert**
BY ORSYS

# Course : PowerShell, automating Windows administration

**Official course AZ-040-T00**

*Practical course - 5d - 35h00 - Ref. PWV*
*Price : 3230 € E.T.*

★★★★⯨    4,2 / 5

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.

## Teaching objectives

**At the end of the training, the participant 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

## Intended audience
Experienced IT professionals in Windows Server, Windows Client, Azure or Microsoft 365 administration, wishing to learn how to use PowerShell, even without prior scripting experience.

## Prerequisites
Experience in Windows Server administration, Windows Client management and good knowledge of network technologies such as IP, DHCP and DNS.

## Certification
Official course without certification.

## Practical details

**Teaching methods**

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

## Course schedule

**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 and locations

**REMOTE CLASS**
2026 : 9 Mar., 9 Mar., 18 May, 18 May, 20 July, 20 July, 28 Sep., 7 Dec., 7 Dec.

**PARIS LA DÉFENSE**
2026 : 9 Mar., 18 May, 20 July, 28 Sep., 7 Dec.

**LYON**
2026 : 9 Mar., 18 May, 20 July, 7 Dec.

**NANTES**
2026 : 9 Mar., 18 May, 28 Sep., 7 Dec.