

# Course : PowerShell, automating Windows administration

Official course AZ-040-T00

*Practical course - 5d - 35h00 - Ref. PWV*

*Price : 3230 € E.T.*



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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.

### PARTICIPANTS

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.

### TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

## 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.

## ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

## TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

## TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

## ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) so that we can assess your request and its feasibility.

## 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.