

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.

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 leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

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

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@ORSYS.fr to review your request and its feasibility.

- 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.