

# Course : Windows 2025, implementation and administration

*Practical course - 4d - 28h00 - Ref. WAO*

*Price : 2650 CHF E.T.*

★★★★★ 4,6 / 5

This course will teach you how to install and administer the latest version of the Microsoft Windows Server 2025 operating system. You'll learn how to install and configure its different versions, perform routine administration tasks and set up secure resources in an Active Directory environment. Deploy and configure network services.

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Understand what's new in Windows Server 2025 (hotpatching and upgrades)
- ✓ Learn about perpetual licenses and the "Pay as you Go" model of Windows Server 2025.
- ✓ Understanding the version differences between Windows Server 2025 On Premise and Azure Edition
- ✓ Learn how Windows Server 2025 Server adheres to and interconnects with Azure ARC
- ✓ Installing Windows Server 2025 in its various versions
- ✓ Deploying and operating Windows Admin Center
- ✓ Install and deploy Active Directory (Kerberos RC4, 32K paging, Azure Stack HCI)
- ✓ Configuring network services and storage

## Intended audience

Systems and network technicians, administrators and engineers

## Prerequisites

Good knowledge of Windows 10 and/or 11 workstation management.

## Course schedule

### PARTICIPANTS

Systems and network technicians, administrators and engineers

### PREREQUISITES

Good knowledge of Windows 10 and/or 11 workstation management.

### 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.

## 1 Install Windows Server 2025 or upgrade

- Introduction to Windows Server 2025. Positioning of the different versions.
- Windows Server 2025 licenses. (Perpetual mode, and Pay as you Go).
- Azure memberships and interconnections. (The Azure ARC solution for centralization).
- Overview of deployment methods. (The WDS and MDT role).
- The new Windows Server 2025 installation experiences (CORE and GUI modes).
- Les outils FOD pour les serveurs à installation minimal. Travaux

### Hands-on work

Install Windows Server 2025. Install minimum installation version. Deploy FODs.

## 2 Windows Server 2025 administration and configuration tools

- Administer your environment via the Server Manager.
- Administer a server using PowerShell (New Cmdlets 2025).
- Use server groups for administration.
- Installation and configuration of Windows Admin Center (WAC).
- Administer servers and Windows System Insights via WAC.

### Hands-on work

Deploy roles and functions locally. Deploy roles and functions remotely. Install and operate WAC. Administer and configure servers with PowerShell.

## 3 Deploy Active Directory Domain Services

- Introduction to Active Directory 2025 and its architecture.
- Implementation of Active Directory Domain Services 2025.
- Manage AD architecture via the various consoles.
- Create and manage users, groups and OUs (Organizational Units).
- Managing objects in PowerShell.

### Hands-on work

Deploy ADDS directory. Create ADDS objects. Create objects using PowerShell.

## 4 Identity management

- The Active Directory Recycle Bin.
- Managed services accounts.
- Privileged Access Management (PAM).
- Authentication silos and strategies.
- Implementing and configuring Windows LAPS

### Hands-on work

Create and modify AD DS objects. Create service accounts. Implement authentication strategies.

### 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.

## 5 Network services under Windows Server 2025

- DNS service under Windows Server 2025.
- Configure DNS service and create records.
- DNS and DNS SEC management (database security).
- DHCP services under Windows Server 2025.
- Configure DHCP service.
- Deploy DHCP Failover.

### Hands-on work

Configure DNS service. Create DNS records. Install and configure DHCP service. Configure DHCP failover functionality.

## 6 Windows storage

- Disk and volume management in Windows Server 2025.
- The ReFS file system.
- Data deduplication.
- File sharing and the FSRM manager.
- Storage pools and storage spaces.
- What's new in the SMB protocol, compression, SMB on QUIC.
- Storage migration service.

### Hands-on work

Deploy storage pools. Implement shares. Deploy SMB on QUIC.

## 7 Hyper-V

- What's new in Hyper-V for Windows Server 2025.
- Hyper-V and Artificial Intelligence.
- Deploy and configure Hyper-V.
- Network management under Hyper-V.
- Storage for Hyper-V.
- Create and manage virtual machines.

### Hands-on work

AD and approval relationship replication on Hyper-V module.

## 8 Securing a Windows Server 2025 server

- Firewall management under Windows Server 2025.
- Secured-score server.
- Virtualization-based security.
- Windows Defender Malware Protection.

### Hands-on work

Configuring the firewall. Virtualization-based security implementation.

## Dates and locations

### REMOTE CLASS

2026 : 24 Mar., 30 June, 13 Oct., 15 Dec.