

# Course : Windows Server 2022

## - Deployment and Administration

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

*Price : 2650 CHF E.T.*

 4,5 / 5

**BEST**

This course will teach you how to install and administer the latest version of Microsoft's Windows Server 2022 operating system. You will learn to install and configure its various editions, perform routine administrative tasks, and secure resources in an Active Directory environment.

### Teaching objectives

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

- ✓ Understand the new features of Windows Server 2022.
- ✓ Install Windows Server 2022 in its different editions.
- ✓ Deploy and manage Windows Admin Center.
- ✓ Install and configure Active Directory.
- ✓ Configure network services.
- ✓ Configure storage solutions.

### Intended audience

Technicians, administrators, and system and network engineers.

### Prerequisites

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

### Course schedule

#### PARTICIPANTS

Technicians, administrators, and system and network engineers.

#### PREREQUISITES

Strong 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.

#### 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.

## 1 Installing or Upgrading to Windows Server

- Introduction to Windows Server 2022.
- Windows Server 2022 licensing management.
- Azure dependencies and interconnections.
- Overview of deployment methods.
- Installation modes of Windows Server 2022 (GUI, minimal installation).
- FOD tools for minimal installation servers.

### Hands-on work

Installing Windows Server 2022, deploying the minimal installation version, and configuring FOD tools.

### 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](mailto:psh-accueil@orsys.fr) to review your request and its feasibility.

## 2 Administration and Configuration Tools in Windows Server 2022

- Managing your environment with Server Manager
- Administering a server using PowerShell.
- Using server groups for administration.
- Deploying Windows Admin Center (WAC).
- Using WAC for server administration.
- Leveraging Windows System Insights.

### Hands-on work

Deploying roles and features locally and remotely, installing and using WAC, administering and configuring servers with PowerShell.

## 3 Deploying Active Directory Domain Services (AD DS)

- Introduction to Active Directory and its architecture.
- Implementing AD DS and DNS.
- Basic AD DS management and consoles.
- Creating and managing users, groups, and Organizational Units (OUs).
- Managing objects using PowerShell.

### Hands-on work

Deploying AD DS, creating AD DS objects, and using PowerShell for object creation.

## 4 Identity Management

- Active Directory Recycle Bin.
- Managed service accounts.
- Privileged Access Management (PAM).
- Authentication silos and policies.

### Hands-on work

Creating and modifying AD DS objects, setting up service accounts, and implementing authentication policies.

## 5 Networking Services in Windows Server 2022

- DNS service in Windows Server 2022.
- Configuring DNS service and creating records.
- DHCP service in Windows Server 2022.
- Configuring DHCP service.
- Deploying DHCP Failover

### Hands-on work

Configuring DNS service, creating DNS records, installing and configuring DHCP, and setting up DHCP failover.

## 6 Storage Management in Windows Server 2022

- Managing disks and volumes in Windows Server 2022.
- ReFS file system.
- Data deduplication.
- File sharing and File Server Resource Manager (FSRM).
- Storage pools and spaces.
- New SMB protocol features: compression, SMB over QUIC.
- Storage migration service.

### Hands-on work

Deploying storage pools, setting up file shares, and implementing SMB over QUIC.

## 7 Hyper-V Virtualization

- New Hyper-V features in Windows Server 2022.
- Deploying and configuring Hyper-V.
- Network management in Hyper-V.
- Storage management for Hyper-V.
- Creating and managing virtual machines.

### Hands-on work

Replicating Active Directory and setting up trust relationships within Hyper-V.

## 8 Securing Windows Server 2022

- Managing the Windows Server 2022 firewall.
- Secured Score Server.
- Virtualization-based security.
- Windows Defender Malware Protection.

### Hands-on work

Configuring the firewall and implementing virtualization-based security.

## Dates and locations

### REMOTE CLASS

2026: 3 Mar., 26 May, 26 June, 30 June, 30 June, 27 Oct., 27 Oct., 2 Dec.