

# Windows 2016, Active Directory Administration

Hands-on course of 4 days - 28h

Ref.: WAC - Price 2025: 2 610 (excl. taxes)

## EDUCATIONAL OBJECTIVES

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

Install and set up an Active Directory in Windows Server 2016

Deploy domain controllers

Perform common administrative tasks via interfaces and PowerShell

Deploy GPOs to administer workstations and servers

Deploy dynamic access control to fine-tune resource permissions

Back up and restore an Active Directory

## THE PROGRAMME

last updated: 05/2024

### 1) Active Directory Architecture

- Active Directory roles and services.
- What's new in AD 2016 domain services.
- AD services and cloud orientation.

### 2) Installing Active Directory

- Deploying the directory.
- The DNS system and Active Directory.
- Integrated and secure DNS zones.
- DNS records linked to the AD.
- Hands-on work ▶ Installing AD. Configuring the DNS. Record management.

*Installing the AD. DNS configuration. Record management.*

### 3) Domain controller deployment

- Remote and PowerShell deployment.
- Domain controller cloning.
- Child domain implementation.
- Read-only DC deployment (RODC).
- Hands-on work ▶ Deploying RODC, remote DC.

*Deployment of RODC, remote DC.*

### 4) Object management

- Management interfaces.
- Managing objects in PowerShell.
- Administered service accounts.
- Privileged Access Management (PAM).
- Authentication silos and strategies.
- Hands-on work ▶ Creating and modifying AD objects. Creating service accounts. Implementing authentication strategies.

*Creating and changing AD objects. Creating of service accounts. Implementation of authentication strategies.*

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

### 5) Group strategies

- The operating principle.
- The Central Store. WMI filtering.
- Inheritances, blockages and filtering.
- Hands-on work ▫ Creating the central store. Creating GPOs to secure workstations and servers.

*Creation of the Central Store. Creating GPOs to secure stations and servers.*

### 6) Dynamic access control

- Overview of dynamic access control.
- Principles of claims.
- Principles of rules, centralized access strategies.
- FSRM resource manager, authorizations.
- Hands-on work ▫ Implementing DAC to specify access to resources.

*Implementation of DAC to specify access to resources.*

### 7) Sites, services and endorsement relationships

- The roles of an AD site.
- Management of sites and replications.
- Approval relationships: overview and configuration.
- Hands-on work ▫ Creating sites and AD replications. Implementing trust relationships.

*Creation of AD sites and replications. Implementation of approval relationship.*

### 8) Maintenance and troubleshooting of services

- Backing up and restoring services.
- Procedures for maintaining an AD database.
- Replication troubleshooting.
- FSMO role management.
- Hands-on work ▫ Maintenance, backing up the AD. Implementing monitoring tools.

*Maintenance, backup of the AD. Implementing monitoring structures.*

## DATES

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### REMOTE CLASS

2025 : 15 juil., 07 oct.