Course : Windows 10, security and performance

Practical course - 3d - 21h00 - Ref. WIP
Price : 2110 CHF E.T.

This training course will teach you how to optimize Windows 10 performance and master the techniques and tools designed to ensure a high level of security.

Teaching objectives

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

- ✓ Learn about the main security features of Windows 10
- ✓ Managing and moving encrypted files
- ✓ Manage user account rights (ACLs)
- ✓ Limit the installation of non-compliant applications with AppLocker
- ✓ Mastering the Windows 10 firewall and its advanced functions

Intended audience
Technicians and system/network administrators.

Prerequisites
Good knowledge of Windows 10 administration.

Practical details

Hands-on work
Theoretical input, exchanges, experience sharing, demonstrations, tutorials and case studies

Teaching methods
Active teaching based on exchanges, examples, practical exercises and evaluation throughout the course.

Course schedule

PARTICIPANTS
Technicians and system/network administrators.

PREREQUISITES
Good knowledge of Windows 10 administration.

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 Safety fundamentals

- Physical, access and data security.
- Updates and vulnerability management with WSUS 4.
- Network access security. Firewall and proxy.

Hands-on work
Overview of Windows 10 security features.

2 Safety strategies and models

- Administration models.
- User environment parameters.
- Install and configure applications.
- Windows Store Apps management.
- Internet browser configuration parameters.
- Configuring AppLocker application restrictions.

Hands-on work
Limit the installation of non-compliant applications with AppLocker.

3 Protection techniques

- Code signature for Kernel Mode drivers.
- Windows Defender configuration.

Hands-on work
Manage and move encrypted files.

4 Securing workstations

- Authentication and authorization in Windows 10.
- GPO implementation.
- Data security with EFS and BitLocker.
- Configuration du contrôle de compte utilisateur (UAC).
- Overview of Device Guard, Credential Guard.

Hands-on work
Manage user account rights (ACLs), modify UACs on different profiles.

5 Protecting network connections

- Security in a Windows domain context.
- The Windows 10 firewall and its advanced functions.
- Network Access Protection (NAP).
- Manage PCs remotely with DirectAccess.
- Discover Windows to go.

Hands-on work
Firewall settings. Join a domain, isolate workstations. Implement NAP and DirectAccess.

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.

6 **Backups and restore points**

- System protection.
- Manage and automate backups.
- Snapshots and Volume Shadow Copies.

Hands-on work
Backup, reinstall, recover Windows 10.

7 **Analysis tools**

- Performance and stability analyzer. Error reports.
- Diagnosing memory.
- Windows deployment and evaluation kit.
- Tools: Windows 10 Performance Toolkit (WPT).
- Battery life and power consumption.

Hands-on work
Handle analysis tools. Perform a centralized audit.

Dates and locations

REMOTE CLASS
2026 : 8 June, 21 Oct.