

# Course : VMware vSphere 7, monitoring and operation

*Practical course - 3d - 21h00 - Ref. VMR*

**Price : 2240 € E.T.**



4,4 / 5

This course will give you all you need to operate VMware vSphere 7 efficiently. You'll learn how to manage and backup virtual machines (VMs) on a day-to-day basis, monitor resource usage and update the infrastructure.



## Teaching objectives

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

- ✓ Creating, configuring and administering virtual machines with vSphere 7
- ✓ Manage virtual infrastructure updates with Update Manager
- ✓ Monitor and manage virtual platform resources
- ✓ Managing software replication of virtual machines

## Intended audience

Operators in charge of running ESXi, ESX and/or vCenter Server servers, wishing to enhance their skills in the day-to-day management of virtual machines.

## Prerequisites

Good knowledge of Windows and/or Linux administration.

## Course schedule

### 1 VMware vSphere 7 overview

- vSphere 7 architecture.
- vSphere 7 components.
- License management.
- vSphere inventory management.
- Networking under vSphere 7.
- Storage management (vStorage): different storage protocols.
- Storage: Datastore management.

## PARTICIPANTS

Operators in charge of running ESXi, ESX and/or vCenter Server servers, wishing to enhance their skills in the day-to-day management of virtual machines.

## PREREQUISITES

Good knowledge of Windows and/or Linux 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.

## 2 Virtual Machine (VM) creation, deployment and administration

- VM components. vSphere license and inventory management.
- Template creation and management.
- Create a new VM and clone it.
- Virtual machine snapshots.
- Cold migration of a VM.
- Virtual hardware management: Thin provisioning, VMDirectPath.
- vApp, VMware VMotion, VMware Storage VMotion and VMware Enhanced VMotion.

### Hands-on work

Create, configure and administer virtual machines in vSphere.

## 3 Monitoring and resource utilization

- Manage VM resources (shares, limits, reservations).
- Resource pools.
- Technologies for optimizing processor and memory utilization.
- Performance and infrastructure monitoring with alarms.

### Hands-on work

Monitor and manage virtual platform resources.

## 4 VMware clusters

- Using a Cluster Distributed Resource Scheduler.
- VMware High Availability (HA) cluster management.

## 5 Virtual machine replication

- VM replication with vSphere Replication.
- VM recovery (on schedule or disaster recovery).

### Hands-on work

Manage software replication of virtual machines.

## 6 Virtual infrastructure upgrade

- Virtual infrastructure upgrade.
- ESXi update management with VMware Update Manager.

### Hands-on work

Manage virtual infrastructure updates with Update Manager.

### 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.

## Dates and locations

### REMOTE CLASS

2026 : 10 Mar., 1 June, 9 June, 16 Sep., 22 Sep., 1 Dec., 7 Dec.

### PARIS LA DÉFENSE

2026 : 23 Mar., 1 June, 1 June, 16 Sep., 7 Dec.