



# MFE-IT

Reference: SM/EN/V8

## vSphere 8 Training Course

Resolving Complex Incidents in Virtualised Environments

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*Duration: 5 Days | Hours: 35 h*

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*Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice*

## DESCRIPTION

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In virtualised production environments running vSphere 8, incidents are often complex, critical and high-impact. A single misconfiguration can cascade across compute, storage and network — and the cost of downtime makes rapid, methodical troubleshooting a core skill for any virtualisation engineer.

This training course immerses you in an intensive troubleshooting workshop based on real-world incidents involving systems, networks, storage and virtual machines. You will learn how to diagnose, correct, automate and prevent malfunctions using vSphere 8 tools, log analysis, CLI and PowerCLI — applying VMware best practices to minimise service interruptions.

## LEARNING OBJECTIVES

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By the end of this training course, participants will be able to:

- Develop an effective incident resolution method in vSphere 8
- Use diagnostic tools: ESXi logs, vCenter, CLI, PowerCLI
- Correct errors related to VMs, hosts, virtual networks and datastores
- Automate checks and corrective actions
- Analyse root causes to prevent recurrence
- Identify changes specific to vSphere 8 in incident management

## PREREQUISITES

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- Basic proficiency in VMware vSphere (deployment, VM management, storage)
- Good knowledge of virtualised environments and network infrastructures
- Previous experience in production or IT support strongly recommended

*Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.*

## TARGET AUDIENCE

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VMware operators, production engineers and administrators responsible for business continuity in virtualised environments.

## DETAILED PROGRAMME

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The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

### Module 1 – Troubleshooting Methodology

- Analysis steps and types of common errors
- Root cause approach and incident triage
- New features in vSphere 8 relevant to troubleshooting

### Module 2 – Diagnosing and Troubleshooting ESXi Hosts

- Critical services and system errors
- SSH, DCUI and console-based diagnostics
- ESXi log management and log bundles

### Module 3 – Virtual Machine Issues

- Freezes, slowdowns and access problems
- VM startup failures and snapshot issues
- Hardware compatibility and VM tools

### Module 4 – Storage and Datastores

- Connectivity and performance issues
- vSAN, NFS and VMFS troubleshooting
- Latency analysis and IOPS optimisation

### Module 5 – Network and Connectivity

- VLAN, vSwitch and dvSwitch issues
- MTU mismatches and network latency
- Blocked traffic and firewall investigation

### Module 6 – Diagnostic Automation

- Introduction to PowerCLI and quick analysis scripts
- Alert escalation and integration with monitoring tools
- Integration with vSphere+ and modern toolchains

## TEACHING METHODS

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### Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

### MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

### Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

### Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

### Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: [contact@mfe-it.com](mailto:contact@mfe-it.com).

## PRACTICAL INFORMATION

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### Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

### Certification and Validation

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

### **Benefits for Participants**

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

### **Benefits for the Organisation**

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts