VMware vSphere – Install, Configure, Manage (VM-VSICM)

4 – 8 July 2027
Online



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Introduction

Virtualization technologies have become a fundamental component of modern data center operations, enabling organizations to optimize resource utilization, improve operational flexibility, and enhance system availability. As infrastructure environments grow more complex, organizations increasingly rely on robust virtualization platforms to support business-critical workloads and ensure operational continuity. Effective management of these platforms requires structured knowledge and practical skills.

The VMware vSphere - Install, Configure, Manage VM-VSICM course is designed to provide professionals with a comprehensive understanding of how to deploy, configure, and manage a virtualized infrastructure environment. This course targets executives seeking technical awareness, team leaders responsible for infrastructure operations, and technical professionals with intermediate experience in servers and networking.

The practical value of this course lies in its focus on real operational scenarios. Participants gain hands-on knowledge in managing virtual machines, allocating resources efficiently, and maintaining stable virtual environments. These capabilities support improved system reliability, reduced downtime, and better alignment between infrastructure performance and organizational objectives.

Course Objectives

The VMware vSphere—Install, Configure, Manage VM-VSICM course aims to develop practical and operational skills required to manage enterprise virtual environments effectively. The objectives emphasize applied learning and real-world relevance.

- Understand core virtualization concepts and architectures.
- Install and deploy the vSphere platform in a structured manner.
- Configure essential platform components and services.
- Manage virtual machines and resource allocation.
- Monitor performance and identify operational issues.
- Implement high availability and system protection mechanisms.
- Administer multi-host virtual environments.
- Prepare for professional certification pathways related to virtualization.



Course Outlines

Day One: Introduction to Virtualization and the vSphere Platform

- Overview of virtualization concepts and benefits.
- Introduction to the main components of the vSphere platform.
- Understanding virtual data center architecture.
- Identifying different types of virtual resources.
- Explaining how virtual machines operate.
- Discussion of practical use cases in operational environments.

Day Two: Platform Installation and Core Configuration

- Reviewing installation requirements and prerequisites.
- Performing installation of core platform components.
- Establishing connectivity between hosts and centralized management.
- Configuring initial system and security settings.
- Setting up virtual networking and storage.
- Practical exercises based on a complete virtual environment.

Day Three: Virtual Machine and Resource Management

- Creating and managing virtual machines.
- Allocating compute and memory resources.
- Managing storage associated with virtual machines.
- Controlling virtual machine power states and operations.
- Monitoring resource consumption and performance metrics.
- Applying practical scenarios for resource management.

Day Four: High Availability and Performance Optimization

- Understanding high availability concepts in virtual environments.
- Configuring protection mechanisms against system failures.
- Optimizing workload distribution across resources.
- Managing planned and unplanned system outages.
- Analyzing performance trends and capacity usage.
- Reviewing case-based scenarios focused on system stability.



Day Five: Advanced Administration and Final Evaluation

- Comprehensive review of all course topics.
- Managing complex multi-host virtual environments.
- Applying administrative policies and maintenance procedures.
- Analyzing an end-to-end virtualization management scenario.
- Evaluating knowledge through applied technical activities.
- Summarizing key concepts and identifying next development steps.

Why Attend This Course: Wins & Losses!

- Designed for professionals with intermediate experience.
- Enhances skills in managing virtualized infrastructure.
- Improves resource utilization and system efficiency.
- Reduces downtime and operational disruptions.
- Supports business continuity and service reliability.
- Focuses on practical, real-world operational scenarios.
- Applicable across various organizational environments.
- Strengthens readiness for advanced virtualization roles.

Conclusion

The VMware vSphere—Install, Configure, Manage VM-VSICM course provides a structured and practical approach to managing virtualized infrastructure environments. It is specifically designed for professionals with intermediate experience who seek to deepen their operational capabilities and improve infrastructure reliability.

By combining platform installation, configuration, resource management, and high availability concepts, the course enables participants to build stable and scalable virtual environments. The emphasis on applied learning ensures that acquired skills translate directly into improved operational performance.

Overall, this course represents a valuable step for individuals and organizations aiming to strengthen virtualization management, reduce operational risk, and support sustainable infrastructure operations.

