VMware vSphere: Design (v8.0) Training

Duration: **3 Day**

BILGINC IT Academy
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Overview

This **three-day expert-level course** equips participants with the skills to **design a VMware vSphere® 8 virtual infrastructure**. Based on **VMware best practices**, the course teaches how to build an architecture that ensures **availability, manageability, performance, security, and recoverability**.

Students will learn the **benefits and risks of different design choices**, and through case studies, will practice making **sound design decisions** tailored to business objectives.

Product Alignment

- VMware ESXi 8.0
- VMware vCenter 8.0

Prerequisites

Completion of one of the following courses:

- **VMware vSphere: Install, Configure, Manage**
- **VMware vSphere: Operate, Scale, and Secure**

Who Should Attend

- System integrators
- Consultants
- Solution architects

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What You Will Learn

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

- Create a **vSphere design** based on a case study
- Analyze business objectives, requirements, constraints, assumptions, and risks
- Move from conceptual to logical to physical designs
- Make informed design decisions for vCenter, ESXi, storage, networking, clusters, and VMs
- Plan for capacity, scalability, and lifecycle management
- Ensure high availability and performance through design choices
- Implement security design decisions
- Develop disaster recovery and data loss prevention strategies

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Outline

1. Course Introduction

- Objectives and logistics

2. Infrastructure Assessment

- Design frameworks and methodologies
- Business objectives and requirements
- Conceptual, logical, and physical design transition

3. Designing for Manageability: Capacity Planning

- Compute and storage calculations
- VMware best practices for capacity planning

4. Designing for Manageability: Scalability

- Strategies for scaling vSphere environments

5. Designing for Manageability: Lifecycle Management

- Strategies for upgrades, patching, and lifecycle processes

6. Designing for Availability

- Ensuring uptime through design best practices

7. Designing for Performance

- Strategies to maximize performance through design choices

8. Designing for Security

- Implementing security-focused architecture

9. Designing for Recoverability

- Disaster recovery and business continuity planning