

VMware Data Center Virtualization: Core Technical Skills

Course Duration: 40 Hours

Course Code: VMW-DCV-CTS

1. Course Overview

The **VMware Data Center Virtualization: Core Technical Skills** course provides participants with the fundamental knowledge and hands-on experience required to understand VMware vSphere components and their role in modern data centers. This course builds a strong foundation in virtualization concepts, vSphere architecture, and practical skills to deploy, manage, and maintain a virtualized infrastructure. It is designed to help learners gain essential technical competencies for VMware Data Center environments.

2. What You'll Learn?

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

- Understand the core concepts of data center virtualization.
- Explore VMware vSphere architecture and its key components.
- Deploy and configure ESXi hosts and vCenter Server.
- Create and manage virtual machines and templates.
- Perform basic vSphere networking and storage operations.
- Apply monitoring, performance, and troubleshooting techniques.
- Understand the essentials of backup, security, and resource management.

3. Target Audience

This course is ideal for:

- IT professionals new to VMware virtualization.
- System administrators and engineers who want to expand their skills.
- Data center operators managing VMware environments.
- Fresh graduates or professionals looking to build a career in virtualization.
- Anyone preparing for VMware certification paths.

4. Pre-Requisites

Participants should have:

- Basic knowledge of computer hardware and networking.
- Familiarity with operating systems such as Windows or Linux.
- No prior VMware experience is required, but general IT knowledge is recommended.

5. Course Content

Module 1: Introduction to Virtualization and VMware vSphere

Module 2: VMware vSphere Architecture and Components

Module 3: Installation and Configuration of ESXi Hosts

Module 4: vCenter Server Deployment and Management

Module 5: Creating and Managing Virtual Machines

Module 6: vSphere Networking Fundamentals

Module 7: vSphere Storage Fundamentals

Module 8: Resource Management and Monitoring

Module 9: Backup, Security, and High Availability Essentials

Module 10: Troubleshooting Basics and Best Practices

