

VMware vSphere with Tanzu: Deploy and Manage [V7]

Course Duration: 24 Hours

Course Code: VMW-VSTDM7

1. Course Overview

The **VMware vSphere with Tanzu: Deploy and Manage [V7]** course provides hands-on training to help IT professionals deploy and manage vSphere with Tanzu, enabling Kubernetes workloads on vSphere infrastructure. You will gain practical experience in configuring, managing, and monitoring VMware Tanzu Kubernetes clusters and integrating them with vSphere resources to support modern application development.

2. What You'll Learn?

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

- Describe vSphere with Tanzu architecture and components.
- Deploy and configure vSphere with Tanzu.
- Create and manage namespaces.
- Provision and operate Tanzu Kubernetes clusters.
- Configure storage, networking, and security for workloads.
- Monitor, scale, and troubleshoot Kubernetes workloads on vSphere.

3. Target Audience

This course is designed for:

- System Administrators
- Cloud Administrators
- Virtualization Engineers
- Platform Operators

- Anyone responsible for deploying and managing Kubernetes workloads on vSphere.

4. Pre-Requisites

Participants should have:

- Knowledge of VMware vSphere environments.
- Understanding of Kubernetes and container concepts.
- Completion of **VMware vSphere: Install, Configure, Manage [V7]** course or equivalent experience is recommended.

5. Course Content

Module 1: Course Introduction

- Introduction and objectives
- Overview of vSphere with Tanzu

Module 2: vSphere with Tanzu Architecture

- Key components and services
- Supervisor Cluster and Namespaces

Module 3: Deploying vSphere with Tanzu

- Requirements and preparation
- Step-by-step deployment

Module 4: Configuring and Managing vSphere Namespaces

- Namespace creation and permissions
- Assigning resources and storage policies

Module 5: Tanzu Kubernetes Clusters

- Provisioning clusters
- Cluster operations and lifecycle management

Module 6: Storage, Networking, and Security

- Configuring storage classes
- Networking options with NSX-T and vSphere networking
- Role-based access control and security policies

Module 7: Monitoring and Troubleshooting

- Monitoring workloads and cluster health
- Troubleshooting common issues

Module 8: Scaling and Advanced Operations

- Scaling applications and clusters
- Integrating with DevOps tools

