# VMware vSphere Foundation: Build, Manage, Operate [v9.0] Training

Duration: **5 Day**

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## Overview

This five-day instructor-led course provides the knowledge and practical skills to**deploy, configure, and manage VMware vSphere Foundation 9.0**.

Participants will gain a comprehensive understanding of:

- The **vSphere Foundation architecture**,
- Compute, storage, and network resources,
- Licensing and lifecycle management,
- Integration with **VCF Operations 9.0, vCenter 9.0, and ESX 9.0**.

This course is designed to build confidence in administering and operating a complete vSphere Foundation environment.

## Prerequisites

Participants should have working knowledge and experience with:

- **VMware vSphere**, **VMware NSX**, and **vSAN environments**

## Who Should Attend

Ideal for professionals such as:

- System Administrators
- Solution Engineers
- Consultants and Architects
- Technical Support Personnel

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## What You Will Learn

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

- Define the key features, use cases, and capabilities of vSphere Foundation
- Navigate the **VCF Operations** and **vSphere User Interfaces**
- Manage and assign licenses
- Install and configure **ESXi hosts**
- Create and manage **Standard and Distributed Switches**
- Configure **datastores** (VMFS, iSCSI, NFS)
- Create, clone, and manage **virtual machines**
- Use **vMotion** and **Storage vMotion** for VM migration
- Configure **vSphere HA** and **DRS Clusters**
- Manage **vSAN clusters** and monitor performance
- Deploy and configure **vSphere Kubernetes Services**
- Work with **VCF Operations metrics, dashboards, and alerts**
- Deploy and manage **VCF Operations components**
- Use **Lifecycle Manager** for updates and upgrades

## Outline

**Course Introduction**

- Objectives and logistics

**vSphere Foundation Overview and Architecture**

- Core features, components, and use cases
- Overview of VCF Operations

**License Management**

- Managing and assigning licenses
- vCenter integration

**Compute Configuration**

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- Virtualization concepts and ESXi installation
- Managing vCenter inventory

**Networking**

- Creating and configuring Standard and Distributed switches
- Setting and managing networking policies

**Storage**

- vSphere storage technologies and datastore management
- Configuring VMFS, NFS, and iSCSI storage

**Deploying Virtual Machines**

- Creating, cloning, and managing VMs
- Managing templates and content libraries

**Virtual Machine Management**

- Performing **vMotion**, **Storage vMotion**, and **Snapshots**
- Managing resource allocation (CPU, Memory)

**Deploying and Configuring Clusters**

- Configuring **vSphere HA and DRS**
- Understanding HA and DRS operations and design

**vSAN Management**

- Features, differences between ESA and OSA
- Object health and RAID configuration

**vSphere Kubernetes Service**

- Deploying and managing vSphere Supervisor clusters
- Configuring namespaces and VKS clusters

**VCF Operations Metrics and Dashboards**

- Creating views, reports, and dashboards
- Configuring alerts and widget interactions

**vSphere Foundation Deployment**

- Deployment planning, prerequisites, and installation

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- Using **VCF Installer UI** and **JSON spec file**
- Deploying VCF Operations components

**Lifecycle Management**

- Using **vCenter Update Planner**
- Managing updates via **Lifecycle Manager**

## Hands-On Learning

Practical labs include:

- Deploying and managing ESXi hosts
- Configuring networking and storage
- Creating and migrating VMs
- Setting up HA/DRS clusters
- Managing vSAN and Kubernetes services

## Exams and Certification

This course prepares learners for the:
**VMware Certified Professional – vSphere Foundation Administrator (2V0-16.25)** exam.
(*Exam available separately.*)