

## Course Description

This two-day, hands-on course gives you the skills to install and configure a virtual desktop infrastructure platform. This course builds your skills in installing and configuring VMware Horizon® through a combination of lecture and hands-on labs. You learn how to install and configure VMware Horizon® Connection Server™, VMware Unified Access Gateway™, how to configure a load balancer for use with Horizon, and how to establish Cloud Pod Architecture.

## Course Duration:

2 days

## Prerequisites:

Customers attending this course should have, at a minimum, the following VMware infrastructure skills:

- Use VMware vSphere® Web Client to view the state of virtual machines, datastores, and networks
- Open a virtual machine console on VMware vCenter Server® and access the guest operating system
- Create snapshots of virtual machines
- Configure guest customization specifications
- Modify virtual machine properties
- Convert a virtual machine into a template
- Deploy a virtual machine from a template

Attendees should also have the following Microsoft Windows system administration experience:

- Configure Active Directory services, including DNS, DHCP, and time synchronization
- Restrict user activities by implementing Group Policy objects
- Configure Windows systems to enable Remote Desktop Connections
- Build an ODBC connection to an SQL Server database

## Objectives:

By the end of the course, you should be able to meet the following objectives:

- Identify VMware Horizon Connection Server installation, architecture and requirements
- Describe the authentication and certificate options for a Horizon environment
- Recognize the integration process and benefits of Workspace ONE Access and Horizon 8
- Compare the remote display protocols that are available in VMware Horizon
- Describe the 3D rendering options available in Horizon 8
- Discuss scalability options available in Horizon 8
- Describe different security options for Horizon environment

## Course Outline:

1. Course Introduction
  - Introductions and course logistics
  - Course objectives
2. Horizon Connection Server
  - Recognize VMware Horizon reference architecture

- Identify the Horizon Connection Server supported features
  - Identify the recommended system requirements for Horizon Connection Server
  - Configure Horizon event database
  - Outline the steps for the initial configuration of Horizon Connection Server
  - Discuss the AD LDS database as a critical component of Horizon Connection Server installation
3. Authentication and Certificates
    - Compare the authentication options that Horizon Connection Server supports
    - Describe the Smartcard authentication options that Horizon Connection Server supports
    - Outline the steps to create a Horizon administrator and custom roles
    - Describe the roles available in a Horizon environment
    - Explain the role that certificates play for Horizon Connection Server
    - Install and configure certificates for Horizon Connection Server
    - Install and configure True SSO in a Horizon environment
  4. Workspace ONE Access and Virtual Application Management
    - Recognize the features and benefits of Workspace ONE Access
    - Recognize the Workspace ONE Access console features
    - Explain identity management in Workspace ONE Access
    - Explain access management in Workspace ONE Access
    - Describe the Workspace ONE Access directory integration
    - Deploy virtual applications with Workspace services
  5. Horizon Protocols
    - Compare the remote display protocols that are available in VMware Horizon
    - Describe BLAST
    - Describe the BLAST Display Protocol Codecs
    - Summarize BLAST Codec options
    - List ideal applications for each BLAST codec
    - Describe BLAST and PCoIP ADMX GPO common configurations
  6. Graphics Cards
    - Describe the 3D rendering options available in Horizon 8
    - Compare vSGA and vDGA
    - List the steps to configure graphics cards for use in a Horizon environment
  7. Horizon Scalability
    - Describe the purpose of a replica connection server
    - Explain how multiple Horizon Connection Server instances in a pod maintain synchronization
    - List the steps to configure graphics cards for use in a Horizon environment
    - Configure a load balancer for use in a Horizon environment
    - Explain Horizon Cloud Pod Architecture LDAP replication and VIPA
    - Explain Horizon Cloud Pod Architecture scalability options
  8. Horizon Security
    - Explain concepts relevant to secure Horizon connections
    - Describe how to restrict Horizon connections.
    - Discuss the benefits of using Unified Access Gateway
    - List the two-factor authentication options that are supported by Unified Access Gateway
    - List Unified Access Gateway firewall rules
    - Describe the situation in which you might deploy Unified Access Gateway instances with one, two, or three network interfaces



## Who Should Attend

Tier 1 Administrators and architects for VMware Horizon should enroll in this course. These individuals are responsible for the implementation, maintenance, and administration of an organization's end-user computing infrastructure.