

Course Introduction

- Introductions and course logistics
- Course objectives

Basic Design Concepts

- Describe the principles of design
- Describe the design process and frameworks
- Explain VMware Validated Design and its importance

NSX-T Data Center Architecture and Components

- Explain the NSX-T Data Center and Virtual Cloud Network
- Describe the NSX-T Data Center architecture and use cases
- List the NSX-T Management cluster design considerations

NSX-T Data Center Design Considerations

- Explain physical infrastructure design considerations
- Explain virtual infrastructure design considerations
- List the collapsed management and VMware NSX® Edge™ resources design considerations
- Explain dedicated management and NSX Edge resources design

Logical Switching Design

- Explain the VMware NSX-T™ logical switching design concepts
- Describe the traffic flooding concepts

NSX-T Data Center Edge Design

- List NSX Edge VM design considerations
- Explain NSX Edge BareMetal design considerations
- Describe NSX Edge cluster design
- Explain Bridge design considerations

Logical Routing Design

- Explain logical router components
- Describe multitier routing
- Explain IPv6 addressing and routing design concepts
- Multi-compute workload domain design considerations

NSX-T Data Center Advanced Routing Design

- Explain High Availability and Router Placement
- L3 Multicast design considerations

- Describe VRF Lite and EVPN

NSX-T Data Center Network Design

- Explain the functionality and considerations of using NAT, Proxy ARP, DHCP, and metadata proxy
- Describe the load balancer design considerations
- Explain the VPN design considerations

NSX-T Data Center Security Design

- Explain the Distributed Firewall design concepts
- Explain the Identity Firewall design concepts
- Explain the Gateway Firewall design concepts
- Describe the security policy methodology

NSX-T Data Center Federation Design

- Explain the Federation functionality
- Explain the design concepts for Federation components
- Describe the design involved for Federation networking
- Review Federation design considerations

NSX-T Data Center and Container

- Understand the integration between NSX-T Data Center and vSphere with VMware Tanzu™
- Describe how NSX-T Data Center provides networking, load balancing, and security in vSphere for VMware Tanzu
- Describe VMware Tanzu™ Kubernetes Grid™ Service
- Understand Tanzu Kubernetes Grid™ cluster networking and load balancing capabilities