**+ Section 1:** Explain SDDC and Network Virtualization Concepts and Use Cases

**+ Objective 1.1:** Compare traditional Data Center and Networking challenges with SDDC and Network Virtualization benefits

Knowledge

* Understand vSphere virtual switching
* Identify uses and benefits of a vSphere standard switch
* Identify uses and benefits of a vSphere distributed switch

**+ Objective 1.2:**Describe Network Virtualization concepts

Knowledge

* Identify how a physical switched network is architected
* Identify a network with and without VLANs
* Identify and explain access ports
* Identify and explain trunk ports

**+ Objective 1.3:** Describe SDDC concepts and basic virtualization architecture

Knowledge

* Identify and explain virtual machine port groups
* Identify and explain uplink ports
* Differentiate between configuring virtual switch uplinks as access ports or trunk ports
* Identify automation, elasticity, security, and management challenges in a virtual and physically-switched Data Center

**+ Section 2:** Differentiate VMware NSX Component and Services

**+Objective 2.1:** Identify and differentiate NSX components Fabrics

Knowledge

* Identify routing and switching requirements
* Identify how firewall services work without a network virtualization platform
* Identify how load balancing works without a network virtualization platform
* Identify how VPN services work without a network virtualization platform
* Explain how hypervisors and virtual switches run on top of a Compute Infrastructure

**+Objective 2.2:** Describe vSphere networking architecture and components

Knowledge

* Describe network virtualization
* Identify and differentiate between Data, Control and Management planes in a virtual network
* Identify and explain core NSX components such as Logical Switches, L2 Bridges and Logical Routers

**+Objective 2.3:** Compare and Contrast VXLAN logical switching benefits and functionality

Knowledge

* Differentiate physical and virtual networking
* Identify traffic flows between VXLANs and VLANs with NSX
* Describe how Virtual Bridges connect virtual resources to physical workloads
* Describe routing prior to NSX
* Describe NSX logical routing
* Identify and explain vCenter Server and NSX Manager integration
* Identify and explain NSX Controller deployment
* Identify and explain NSX Controller Clusters
* Identify and explain NSX VXLAN deployment

**+Objective 2.4:** Compare and Contrast NSX logical routing benefits and functionality

Knowledge

* Describe common enterprise level topologies with NSX
* Describe NSX Edge Services Gateway usage in a multiple tenant environment
* Describe NSX scalability for multiple tenant scenarios

**+Objective 2.5:** Describe NSX Edge services functionality

Knowledge

* Identify tools for traffic flow visibility
* Identify traffic analysis tools
* Identify network inventory and fault management tools
* Identify logging, event tracking, and auditing tools
* Identify health check monitoring in an NSX overlay network

**+ Section 3:** Differentiate NSX Security Benefits and Features

**+ Objective 3.1:** Compare and Contrast NSX Security benefits and functionality

Knowledge

* Explain NSX Manager
* Explain NSX VXLANs
* Explain NSX Distributed Logical Routers
* Explain NSX Controllers
* Explain NSX Edge Services Gateways
* Explain advanced services such as Firewalls and Load Balancers

**+ Objective 3.2:** Describe NSX Logical Firewall services

Knowledge

* Explain physical firewalls
* Explain virtual firewalls
* Explain NSX distributed firewall

**+ Objective 3.3:** Compare and Contrast NSX Service Composer functionality

Knowledge

* Explain NSX Service Composer
* Explain automated security policies
* Explain security groups

**+ Section 4:** Differentiate NSX Network Virtualization Use Cases

**+ Objective 4.1:** Describe typical NSX Network Virtualization use cases

Knowledge

* Explain common use cases for NSX
* Explain NSX micro-segmentation
* Explain NSX elasticity
* Explain NSX security
* Explain NSX management

**+ Objective 4.2:** Explain the role of NSX in Workforce Mobility and IT Security use cases

Knowledge

* Explain common use cases for Workforce Mobility
* Explain common use cases for IT Security
* Describe the benefits of a structured IT approach to End User Computing

**+ Objective 4.3:** Explain the role of NSX in IT Automation use cases

Knowledge

* Explain common use cases for NSX in IT Automation

**+ Objective 4.4:** Explain the role of NSX in application continuity and disaster recovery use cases

Knowledge

* Explain common use cases for application continuity
* Explain common use cases for disaster recovery
* Describe the benefit of Cross-vCenter NSX with disaster recovery

Duration : 15-20hours

Cost: Rs 15k