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## SPJ Solutions

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## NSX Administration Training - 2 Days

SPJ Solutions' VMware NSX Administration Training course covers the concepts of network virtualization and administration of VMware NSX. This includes standards and best practices for developing and operating a network virtualization environment using VMware NSX and a physical network infrastructure.

This training complements the VMware NSX ICM class and is not shown on VMware's mylearn as the training is developed and delivered outside of the mylearn system. The class is delivered either at SPJ Solutions offices or on site. Course content and labs are customized to meet customer specific needs. Students for this class are expected to have basic networking skills including: switching, routing, and VLAN.

### Expected Course Outcomes

Understanding of the benefits of network virtualization, NSX, VMware Standard and Distributed Switches, Logical Switching, Logical Routing, Distributed Firewalls, NSX Edge Services Gateway, NSX Distributed Logical Router and Universal Distributed Router, Cross-vCenter NSX Capabilities, NSX Manager Administration, NSX Load Balancers (inline and one-armed), Security Groups, Security Policies, Activity and Flow Monitoring, and Integration with Third-Party VMs.

### Course Description

**Module 1: Overview of VMware NSX:** Network virtualization, the benefits of VMware NSX, hardware-defined data centers, and the role of network virtualization in the software defined data center. It also covers NSX components including NSX Manager, NSX Controller, NSX Logical Router Control VM, NSX Distributed Firewall, NSX Edge Services Gateway, NSX CLI, and Service Composer.

**Module 2:** VMware Distributed Switch and Logical Switch: Distributed Switch, Logical Switch, Universal Logical Switch, and Transport Zone. Students will create Logical Switches and deploy VMs into the logical switches.

**Module 3:** Logical Routing using Distributed Logical Router and Edge Services Gateway: Edge Services Gateway, Distributed Logical Router, Universal Distributer Logical Router, and Cross vCenter NSX operations. Students will deploy and configure ESG and DLR.

**Module 4:** Micro-Segmentation: Distributed firewall, security group, and security policy. Trainees will practice micro-segmentation in the lab environment.

**Module 5:** Monitoring and Management: Activity Monitoring, Flow Monitoring, Log Insight, vRealize Operations, and vRealize Network Insight. The lab includes various monitoring examples of virtual machines deployed in the NSX environment.