



# VMware NSX for Internetworking Experts Fast Track [V6.0]

## H9P71S

### Course Overview

This comprehensive, fast-paced training course is designed for advanced Cisco network administrators who want a comprehensive understanding of how to use VMware NSX™ in their enterprise. This course focuses on how to use the power of the NSX network virtualization and security platform. This course covers NSX as a part of the software-defined data center, implementation, use cases, features, and functionality operating at layer 2 through layer 7 of the OSI model. Cisco-based infrastructure required.

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| <b>Price</b>  | USD \$6,300   |
| <b>Links to local schedules, pricing and registration</b> | <a href="#">US/Canada</a><br><a href="#">Mexico/Latin America</a><br><a href="#">Brazil</a> |
| <b>Course title</b>                                       | VMware NSX for Internetworking Experts Fast Track [V6.0]                                    |
| <b>HP course #</b>  | H9P71S  |
| <b>Category</b>   | VMware  |
| <b>Duration</b>   | 5 days  |

### Audience

- Experienced system administrators that specialize in networking

### Prerequisites

- Experienced network administrators or system administrators with a strong background in networking
- Understanding of concepts presented in the VMware Data Center Virtualization Fundamentals course for VCA-DCV certification

### Course objectives

- Describe the evolution of the software-defined data center
- Describe how NSX is the next step in the evolution of the software-defined data center
- Describe Cisco Nexus and UCS products and features relevant to NSX
- Describe NSX layer 2 networking
- Configure, deploy, and use logical switch networks in a UCS environment
- Configure and deploy NSX distributed routers to establish East-West connectivity
- Configure and deploy VMware NSX Edge services gateway appliances to establish North-South connectivity
- Configure and use all the main features of the NSX Edge services gateway
- Configure NSX Edge firewall rules to restrict network traffic

- Configure NSX Distributed firewall rules to restrict network traffic
- Use role-based access to control user account privileges
- Use Activity Monitoring to determine whether a security policy is effective
- Use Flow Monitoring to monitor network traffic streams
- Configure Service Composer policies
- Use VMware NSX API to automate virtual networks
- Design a NSX solution with Cisco Nexus and Cisco UCS

## Course outline

### **Module 1: Course Introduction**

- Introductions and course logistics
- Course objectives

### **Module 2: VMware NSX Components for Management and Control**

- Introduction to VMware vSphereR virtualization
- Evolution of the software-defined data center
- Introduction to NSX
- VMware NSX Manager
- VMware NSX Controller cluster

### **Module 3: Logical Switch Network**

- Ethernet fundamentals
- Overview of VMware vSphereR Distributed Switch
- Link aggregation
- VLAN
- VXLAN: logical switch networks

### **Module 4: Nexus and UCS Architecture**

- Cisco Nexus switching architecture
- Cisco UCS connectivity architecture
- Cisco UCS profiles

### **Module 5: VMware NSX Routing**

- NSX routing
- NSX logical router
- Layer 2 bridging
- NSX Edge services gateway

### **Module 6: VMware NSX Edge Services Gateway Features**

- Network address translation
- Load balancing
- High availability
- NSX Edge and VPN

### **Module 7: VMware NSX Security**

- NSX Edge firewall
- NSX Distributed firewall
- Role-based access control
- Service Composer
- Security Monitoring

### **Module 8: Extensibility and Design**

- NSX API
- NSX and Cisco design options

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