

Module 1: Course Introduction

- Introductions and course logistics
- Course objectives

Module 2: NSX-T Data Center Operations and Tools

- Explain and validate the native troubleshooting tools (dashboards, traceflow, port mirroring) for the NSX-T Data Center environment
- Configure syslog, IPFIX, and log collections for the NSX-T Data Center environment
- Integrate NSX-T Data Center with vRealize Log Insight and vRealize Network Insight
- Validate and review the APIs methods available to configure the NSX-T Data Center environment

Module 3: Troubleshooting the NSX Management Cluster

- Describe the NSX Management cluster architecture, components, and communication channels
- Identify the workflows involved in configuring the NSX Management cluster
- Validate and troubleshoot the NSX Management cluster formation

Module 4: Troubleshooting Infrastructure Preparation

- Describe the data plane architecture, components, and communication channels
- Explain and troubleshoot VMware ESXi™ transport node preparation issues
- Explain and troubleshoot KVM transport node preparation issues
- Explain and troubleshoot VMware NSX® Edge™ transport node preparation issues

Module 5: Troubleshooting Logical Switching

- Understand the architecture of logical switching
- List the modules and processes involved in configuring logical switching
- Explain the importance of N-VDS and VDS in transport nodes
- Review the architecture and workflows involved in configuring
- Identify and troubleshoot common logical switching issues

Module 6: Troubleshooting Logical Routing

- Review the architecture of logical routing and NSX Edge nodes
- Explain the workflows involved in the configuration of Tier-0 and Tier-1 gateways
- Explain the HA modes and logical router placements
- Identify and troubleshoot common logical routing issues

Module 7: Troubleshooting Security

- Review the architecture of the Distributed Firewall
- Explain the workflows involved in configuring the Distributed Firewall

- Review the architecture of the Gateway Firewall
- Explain the workflows involved in configuring the Gateway Firewall
- Identify and troubleshoot common distributed firewall and Gateway Firewall issues

Module 8: Troubleshooting Load Balancing and VPN Services

- Review load balancer architecture and components
- Identify and troubleshoot common load balancing issues
- Review of IPsec and L2 VPN architecture and components
- Identify and troubleshoot common IPsec and L2 VPN issues

Module 9: Datapath Walkthrough

- Verify and validate the path of the packet on the NSX-T datapath (East-West and North-South)
- Identify and perform packet captures at various points in the datapath
- Use nsxcli to retrieve configurations involved in the NSX-T datapath