



 **Computer Solution Limited**  
- Affordable High Quality Training

- ★ Authorized - Official Cisco Networking Academy Partner
- ★ Authorized - Official Enterprise RedHat Training Partner
- ★ Authorized - Official Oracle Training Partner (WDP)
- ★ Authorized - Official Microsoft Training & Exam Partner
- ★ Authorized - Official MikroTik Training and Exam Partner

**By the end of the course, you should be able to meet the following objectives:**

- Understand and apply a design framework
- Apply a design process for gathering requirements, constraints, assumptions, and risks
- Analyze existing physical networking and security components, processes, and operations
- Design a VMware vSphere virtual data center to support NSX-T Data Center requirements
- Design a physical network to support network virtualization in a software-defined data center
- Design logical network services
- Design logical security services
- Design a data center rack solution to support scalability and high availability
- Analyze the operational readiness of an organization and perform a skills gap analysis
- Analyze alternative design choices for risk mitigation
- Understand the design and support for NSX-T Data Center infrastructure in a multi data center infrastructure



 **Computer Solution Limited**  
- Affordable High Quality Training

- ★ Authorized - Official Cisco Networking Academy Partner
- ★ Authorized - Official Enterprise RedHat Training Partner
- ★ Authorized - Official Oracle Training Partner (WDP)
- ★ Authorized - Official Microsoft Training & Exam Partner
- ★ Authorized - Official MikroTik Training and Exam Partner

## Outline:

### 1. Course Introduction

- Introductions and course logistics
- Course objectives

### 2. Basic Design Concepts

- Process and principles of design
- Describe the design process and frameworks
- Explain VVD and its importance

### 3. 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

### 4. 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

### 5. Logical Switching Design

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



 **Computer Solution Limited**  
- Affordable High Quality Training

- ★ Authorized - Official Cisco Networking Academy Partner
- ★ Authorized - Official Enterprise RedHat Training Partner
- ★ Authorized - Official Oracle Training Partner (WDP)
- ★ Authorized - Official Microsoft Training & Exam Partner
- ★ Authorized - Official MikroTik Training and Exam Partner

## 6. NSX-T Data Center Edge Design

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

## 7. Logical Routing Design

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

## 8. NSX-T Data Center Network Services

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

## 9. NSX-T Data Center Security Design

- Explain the distributed firewall design concepts
- Explain the Gateway firewall design concepts
- Describe the security policy methodology

## 10. NSX-T Data Center Federation Design

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



 **Computer Solution Limited**  
- Affordable High Quality Training

- ★ Authorized - Official Cisco Networking Academy Partner
- ★ Authorized - Official Enterprise RedHat Training Partner
- ★ Authorized - Official Oracle Training Partner (WDP)
- ★ Authorized - Official Microsoft Training & Exam Partner
- ★ Authorized - Official MikroTik Training and Exam Partner

## 11. NSX-T Data Center and Containers

- Understand VMware Tanzu™
- Understand NSX-T Data Center for Kubernetes
- Understand IPv6 for Kubernetes PODs
- Understand NSX-T Data Center design options for VMware Tanzu
- Describe NSX-T Data Center design recommendations for VMware Tanzu