# Mildain Solutions

## VMware NSX: Design and Deploy [V6.2]

**Summary:**

- Formats: **Classroom**, **Live Online**, **Onsite**
- Length: 5 Days

**Overview:**

This 5-day course prepares you to lead VMware NSX® design and deployment projects by providing an understanding of general design processes and frameworks. You will look at design and deployment considerations for network virtualization as part of an overall software-defined data center design.

Product Alignment
- VMware NSX 6.2
- vSphere 6

**Objectives:**

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 VMware NSX 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
- Identify management, monitoring, and operational tools for a proposed solution
- Analyze the operational readiness of an organization and perform a skills gap analysis
- Analyze alternative design choices for risk mitigation

**Intended Audience:**

Network professionals who have experience working with VMware NSX and are responsible for designing or deploying virtualized network architecture

**Prerequisites:**

This course requires understanding the concepts and topics presented in the following courses:
- VMware NSX: Install, Configure, Manage or VMware NSX: Troubleshooting and Operations

If you have not taken these courses, you should have equivalent experience.

Passing of the VCP6-NV and VCIX6-NV certification is recommended.

This course prepares you for the following certification:
- VCDX6-NV

**Outline:**

1. **Course Introduction**
   - Introductions and course logistics
   - Course objectives
2. **Design Process and Principles**
   - Understand the design process
   - Understand design frameworks

3. **Architecture and Components**
    - Understand the management, control, and data planes
    - Describe VMware NSX® Manager™
    - Design the VMware NSX® Controller™ cluster

4. **Switching and Routing**
    - Design an Ethernet infrastructure
    - Describe VMware vSphere® Distributed Switch™
    - Design a logical switching solution
    - Design a bridging solution
    - Design a VMware NSX logical router solution

5. **Edge Services**
    - Design a remote access solution
    - Design load-balancing services

6. **Security**
    - Design a defense in depth
    - Design edge firewall services
    - Design distributed firewall services
    - Design and integrate security services

7. **Cross-vCenter and Multisite**
    - Describe cross-vCenter solutions
    - Design multisite NSX solutions
    - Design a VMware NSX solution with stretched clusters

8. **Operations and Automation**
    - Describe native operational tools
    - Describe VMware integrated monitoring tools
    - Design a VMware NSX monitoring and operations solution that leverages third-party tools

9. **Enterprise Design Lab**
    - Design and present a conceptual solution
    - Design and present a logical solution