

Designing the FlexPod Solution (FPDESIGN)

Modality: Virtual Classroom

Duration: 2 Days

NATU: 24 Units

About this Course:

This 2-day, instructor led course shows you how to evaluate the FlexPod solution design process in regard to the contemporary data center challenges. The course follows a standard design methodology that is used to create FlexPod designs. FlexPod architectures, components, design principles, use cases and preconfigured solutions are examined. Using NetApp and Cisco tools, learners create FlexPod designs that correlate to real-world environments.

Course Objectives:

- Explain the capabilities and benefits of the FlexPod solution
- Explain FlexPod data center architectures
- Identify the FlexPod design principles
- Describe FlexPod design methodology
- Identify the NetApp and Cisco sizing tools
- Describe FlexPod management, orchestration, and support options
- Describe solutions for common FlexPod designs
- Identify the hardware and software components that are used in common FlexPod designs

Audience:

- NetApp, Cisco or NetApp partner professional services

Prerequisites:

- Technical Overview of FlexPod Solutions

- Knowledge of NetApp hardware, software and cluster administration
- Knowledge of Cisco hardware, software and administration

Course Outline:

Module 1: FlexPod Solution Overview

- Changes and challenges to Data Management
- Introduction to FlexPod solutions
- FlexPod datacenter architectures
- FlexPod workloads

Module 2: Designing a FlexPod Solution

- FlexPod design principles
- Design methodology
- FlexPod sizing and design tools

Module 3: FlexPod Components

- Compute layer
- Network layer
- Storage layer
- FlexPod management

Module 4: Analysis of Validated FlexPod Designs

- FlexPod datacenter with vSphere 6.5U1 CVD
- FlexPod datacenter with Microsoft SQL Server 2017 on Linux VM on VMware and Hyper-V
- FlexPod Express with VMware vSphere 6.7U1 and NetApp AFF A220 with Direct-Attached IP-Based storage
- FlexPod datacenter with VMware Horizon View 7.3 and VMware vSphere 6.5 U1 with Cisco UCS Manager 3.2 for 5000 seats
- FlexPod datacenter with VMware 6.5 U1 and Cisco ACI 3.1

Appendix:

- VDI project planning and solution sizing questions

Labs:

- Extracting customer requirements and challenges
- Select appropriate hardware based on workload variables
- Explore workloads and capacity with FlexPod components
- Select appropriate hardware based on workload variable