

Designing HPE Software-Defined Infrastructure Solutions, Rev. 19.41

Course description

The Designing HPE Software Defined Infrastructure Solutions course is a Web-Based Training that is approximately 20 hours of self-directed content. It includes lectures and activities in the ratio of approximately 15% activities and 85% lecture. Given a customer scenario, you will learn to design HPE Software-Defined Infrastructure Solutions. You will also learn to analyze workloads and their use cases and prescribe the appropriate infrastructure platform (bare metal, containers, virtualization, etc.) including computing, storage, and networking.

Ideal candidate for this course

Solution architects who have experience designing and implementing a complex solution and want to validate their knowledge and skills to leverage HPE solutions in multi-site environments. Candidates typically define business needs and propose and may deploy the solutions.

Topics

- **Review HPE Software-Defined Infrastructure Solutions**
 - Explain the benefits of a software-defined infrastructure
 - Describe the HPE Composable Infrastructure Strategy
 - Explain the HPE value proposition for SDI, SDDC, SDS, and SDN

- **Design an HPE Composable Infrastructure Solution for a Virtualized Environment**
 - Position SDI solutions to solve the customer's requirements
 - Determine the appropriate software defined platform
 - Design for a virtualized environment to determine the appropriate software-defined compute technology

- **Design an HPE SDS Solution for a Virtualized Environment**
 - determine the appropriate SDS technology and design an HPE SDS solution
 - VMware vSAN and vSAN ReadyNode
 - Overview of Microsoft Storage Spaces Direct
 - HPE SDS solutions and integrations
 - HPE 3PAR and Nimble and their plugins
 - HPE RMC-V plugin
 - StoreOnce Cloud Bank and Nimble Cloud Volumes (NCVs)
 - InfoSight analytics

- **Design an HPE SDN Solution for a Virtualized Environment**
 - VMware NSX
 - Converged systems for virtualization
 - Composable fabric solutions
 - HPE Composable Fabric
 - HPE Composable Cloud for ProLiant DL
 - HPE Synergy Composable Fabric
 - HPE SimpliVity with Composable Fabric
 - HPE FlexFabric Switching (including VxLAN, OpenFlow, Security, microsegmenttion)

Course ID	01125004
Course format, Typical duration	WBT - Web Based, Self Paced, 3 days
Skill level	Advanced
Delivery languages	English
Lab required	Yes
Related certifications	<ul style="list-style-type: none"> • HPE Master ASE - Hybrid IT Solutions Architect V1 • HPE Master ASE - Hybrid IT Solutions Architect V1 - upgrade from other Master ASE certifications
In preparation for these exams	<p>Selected items from this course are included in these exams:</p> <ul style="list-style-type: none"> • Designing HPE Software-Defined Infrastructure Solutions

[Register for this course.](#)

Find this course offering in the Training calendar. Click "Register" to take the course in The Learning Center. Login and Password required.

- **Use Orchestration and Configuration Management to Deploy and Manage the HPE SDI Solution**
 - Provision and deploy an HPE SDI solution using orchestration tools
 - Manage and monitor an HPE SDI solution
 - HPE integrations with VMware vCenter, VMware vRealize Operations, and VMware vSphere
 - Scripting tools, in particular Redfish API
- **Design an HPE SDI Solution for a Mid-Sized Organization**
 - determine the appropriate software-defined platform (such as virtualization farm, scale-out database, VDI, streaming analytics, and scale-out storage).
 - determine the appropriate software-defined compute technology
 - HPE's container strategy
 - orchestration and configuration management tools for container solutions
 - Container as a Service solution on HPE Synergy
- **Design the Storage Components for a Containerized Environment**
 - determine the appropriate SDN technology and design an HPE SDN solution
 - Understanding what networks are required for the solution
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Objectives

After you successfully complete this course, expect to be able to:

- Describe Software Defined Infrastructure Architecture and Technologies
- Plan and Design Software Defined Infrastructure Solutions
- Deploy Software Defined Infrastructure Solutions
- Troubleshoot Software Defined Infrastructure Solutions
- Manage, Monitor, and Maintain Software Defined Infrastructure Solutions

How to register

View the [Certification and Learning Global Training Calendar](#) to register for the training offerings that best meets your needs.

Policies, fees and cancellations

Course fees may vary. Fees are established and collected by the training center that delivers the course. Cancellation fees may apply. Contact your HPE Authorized Training Partner for their respective policies.

For more information

[Contact our program](#)

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