

Advanced HPE Edge-to-Cloud Solutions, Rev. 22.31

Course description

The Advanced HPE Edge-to-Cloud Solutions course is five days in duration and teaches you how to plan and design advanced HPE Edge-to-Cloud and HPE GreenLake solutions based on HPE technologies and industry-standard workloads related to optimizing for performance and/or availability. Hands-on activities will guide you through complex design exercises using skills such as information gathering and analyzing customer business and technical requirements. You will learn to recommend and position HPE GreenLake, compute, storage, network solutions, tools, and appropriate services for customer use cases and workloads.

Course ID	0001196323
Course format, Typical duration	Select one: VILT – Virtual Instructor Led, 5 days ILT – Instructor Led, 5 days
Skill level	Advanced (ADV)
Delivery languages	English
Lab required	Yes

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

Ideal candidate for this course

The ideal candidate has a minimum of five to seven years of hands on experience or equivalent designing complex solutions for Enterprise customers. They can scope and architect solutions for the full edge-to-cloud service experience including all of the following HPE technologies: Cloud Services, Compute, Storage, Networking, and Services.

Suggested prerequisites

Hands-on Labs and in-class activities require access to these tools; please ensure you have access to them before you attend.

- HPE GreenLake Quick Quote – Tools from HPE Partner Ready -> HPE GreenLake Quick quote
- HPE Solution Sales Enablement Tool – <https://sset.ext.hpe.com/>
- HPE CloudPhysics – <https://www.cloudphysics.com> (email to cloudphysics@hpe.com, if registration is closed on the website)

Topics

- **HPE value proposition**
 - Explain different types of workloads and their characteristics
 - Describe different types of solutions and their use cases (HPE GLCS, HPE GreenLake, custom, traditional)
 - Describe other customer requirements, including cloud implementation use cases and benefits
 - Define business continuity requirements and solutions, such as disaster recovery/business continuity, RPO/RTP and replication
 - Explain and apply business value knowledge
- **HPE solution offering**
 - Explain the HPE as-a-service strategy
 - Articulate the HPE GreenLake concepts, portfolio, and benefits, including HPE GreenLake core portfolio, HPE GreenLake Cloud Services, HPE GreenLake Lighthouse, HPE GreenLake private cloud, and the financial benefits
- **Designing a solution for a database workload**
 - Differentiate and describe the characteristics and architecture of different database workloads (OLTP, OLAP, benefits of in-memory database, sizing rules for each of them)
 - Explain HPE GreenLake for databases
 - Gather customer requirements for database systems
 - Database platforms (SAP HANA/Microsoft SQL/Oracle)
 - Compute platforms (Superdome Flex/Synergy/SimpliVity/ProLiant/Apollo)
 - Storage components and technologies (Primera, Nimble, Alletra)
 - Networking components and technologies
 - Datacenter Bridging (DCB) on ArubaCX

- Two-tier L2/L3 data center network design (leaf-spine with VSX, CX10000 with Pensando L4-L7 DPU)
 - High availability requirements: Serviceguard for Linux, (SGLX) for SAP HANA, SGLX Flex Storage, Support for SGLX in the cloud (including load balancing), and Failover cluster for Microsoft SQL
 - Management software and options (including Aruba Fabric Composer)
 - Consumption model (traditional vs. HPE GreenLake; PoC included)
- **Designing a solution for a virtualization workload**
 - Describe and explain VMware Cloud Foundation (VCF) building blocks
 - Explain HPE GreenLake for VCF
 - Design a virtualization solution based on the customer requirements, including Gather customer requirements for VCF and Compute platform (Synergy, ProLiant)
 - HPE Storage for workload domains: Primera, Nimble, Alletra (use case, not the product itself)
 - VMware storage technologies for workload and management domain (vSAN and vVols)
 - Storage networking components
 - High Availability requirements: Remote replication and Peer Persistence, vSphere Replication, SRM and SRA plugins, and Stretched cluster
 - Management software and options
 - Consumption model (traditional vs. HPE GreenLake; PoC included)
- **Designing a solution for a VDI workload**
 - Describe and explain VMware Horizon and Citrix architectures
 - Explain HPE GreenLake for VDI
 - Design and architect a VDI solution based on the customer requirements, including Gather customer requirements for VDI, Compute platform (HPE SimpliVity), and Storage components and technologies
 - Integration with StoreOnce (over WAN) and HPE Cloud Bank Storage
 - HPE Nimble Storage dHCI
- **Designing a solution for a container workload**
 - Differentiate and describe the HPE Ezmeral Runtime Enterprise and VMware Tanzu container platforms
 - Explain HPE GreenLake for containers
 - Design and architect a container solution based on the customer requirements
 - Implementation model (VM or bare metal)
 - Storage components and technologies: Primera, Nimble, Alletra, Apollo 4000, Container Storage Interface (CSI) Driver and Storage networking components
 - Management software and options
 - Consumption model (traditional vs. HPE GreenLake; PoC included)
- **Designing a solution for a Big Data/Analytics workload**
 - Demonstrate available consumption models (traditional vs. HPE GreenLake for Big Data/Analytics workloads)
 - Differentiate and describe Big Data architectures and implementation models
 - Design and architect a Big Data solution based on the customer requirements
 - Gather customer requirements for a Big Data solution
 - Compute platform(HPE Apollo 4000 and other HPE compute systems)
 - Primera/Alletra
 - Storage networking components
 - Networking components and technologies
 - Management software and options
 - Consumption model (traditional vs. HPE GreenLake; PoC included)
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Objectives

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

- Describe, differentiate, and apply IT industry trends, standard architectures, technologies, and cloud delivery models.
- Gather and analyze customer business and technical requirements.
- Recommend and position HPE offerings (solutions, products, and services) for customer use cases.
- Explain HPE value differentiation/distinction in the marketplace and positioning and upsell/cross-sell opportunities.
- Architect and design an HPE solution based on customer needs.

How to register

Click on this link to register for this course: <https://certification-learning.hpe.com/tr/TrainingCalendar?excludePartners=false&CourseId=0001196323>

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

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