

# Advanced HPE Edge-to-Cloud Solutions, Rev. 24.31 (0001209042)

## H61Z2S

<b>Course ID</b>	H61Z2S
<b>Duration</b>	5 days
<b>Format</b>	ILT, VILT
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Advanced HPE Edge-to-Cloud Solutions teaches you how to plan and design advanced HPE edge-to-cloud and HPE GreenLake solutions based on HPE technologies and industry-standard workloads for optimizing performance and availability. Hands-on activities guide you through complex design exercises using skills such as information gathering and analyzing customer business and technical requirements. It also covers how to recommend and position HPE GreenLake, compute, storage, network solutions, tools, and appropriate services for customer use cases and workloads.

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### Audience

Ideal candidates have a minimum of 5 – 7 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 the following HPE technologies: cloud services, compute, storage, networking, and services.

### Prerequisites

- Access to the following tools is required for the hands-on labs and in-class activities; please ensure you have access before you attend.
  - [HPE Solution Sales Enablement Tool](#)
  - [HPE CloudPhysics](#) (email [cloudphysics@hpe.com](mailto:cloudphysics@hpe.com) if registration is closed on the website)

### Course objectives

After completing this course, you should 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 and distinction in the marketplace and positioning and upsell/cross-sell opportunities
- Architect and design an HPE solution based on customer needs

### Certifications and related exams

This course prepares you for the Advanced HPE Edge-to-Cloud Solutions exam (HPE1-H04) required for the HPE Master ASE – Edge-to-Cloud Architect certification.

## Detailed course outline

<b>HPE value proposition</b>	<ul style="list-style-type: none"> <li>• Make recommendations from the HPE portfolios, and explain ideal use cases</li> <li>• Outline the benefits of the HPE Complete portfolio</li> </ul>	<ul style="list-style-type: none"> <li>• Examine business and financial considerations when designing a solution</li> <li>• Differentiate concepts and processes regarding business continuity and disaster recovery</li> </ul>
<b>HPE solution offerings</b>	<ul style="list-style-type: none"> <li>• Articulate and explain the HPE as-a-service strategy</li> <li>• Explain and differentiate HPE GreenLake concepts, portfolio, and benefits, including the:               <ul style="list-style-type: none"> <li>• HPE GreenLake core portfolio</li> <li>• HPE GreenLake cloud services</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• HPE GreenLake Lighthouse</li> <li>• Financial benefits</li> <li>• Recommend and explain the benefits of HPE GreenLake Managed Cloud Services</li> <li>• Recognize the competitive landscape</li> </ul>
<b>Designing a solution for a database workload</b>	<ul style="list-style-type: none"> <li>• Differentiate and describe the characteristics of different database workloads</li> <li>• Explain HPE GreenLake for databases</li> <li>• Design a database solution, based on the customer requirements, including:</li> </ul>	<ul style="list-style-type: none"> <li>• Compute platform</li> <li>• Replication and recovery options</li> <li>• Data center interconnect</li> <li>• HPE Serviceguard for Linux</li> </ul>
<b>Designing a solution for an advanced virtualization workload</b>	<ul style="list-style-type: none"> <li>• Recommend and describe VCF building blocks</li> <li>• Explain the components of HPE GreenLake for VCF</li> <li>• Design and architect a virtualization solution, based on customer requirements, including:</li> <li>• HPE Synergy infrastructure</li> </ul>	<ul style="list-style-type: none"> <li>• VMware® storage technologies</li> <li>• Aruba and VMware vSphere® integration</li> <li>• Distributed Services Switch</li> <li>• Protecting VMware workloads</li> </ul>
<b>Designing a solution for VDI workloads</b>	<ul style="list-style-type: none"> <li>• Describe and explain VMware Horizon® and Citrix architectures</li> <li>• Explain HPE GreenLake for VDI</li> </ul>	<ul style="list-style-type: none"> <li>• Design a VDI solution, based on the customer requirements</li> </ul>
<b>Designing a solution for a container workload</b>	<ul style="list-style-type: none"> <li>• Describe the components of, and use cases for, containers and Kubernetes</li> <li>• Design HPE Storage solutions for containers and Kubernetes</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrate the features and benefits of HPE Ezmeral Runtime Enterprise</li> <li>• Compare and contrast the use cases for HPE GreenLake for Containers</li> </ul>
<b>Designing a solution for a Big Data/Analytics workload</b>	<ul style="list-style-type: none"> <li>• Outline the HPE portfolio for Big Data, analytics, and software-defined storage</li> <li>• Define the features of the HPE Apollo 4000 family</li> </ul>	<ul style="list-style-type: none"> <li>• Design solutions for Big Data, analytics, and AI workloads</li> <li>• Design solutions for scale-out unstructured data platforms, including Cohesity, Qumulo, and Scality</li> </ul>
<b>Designing a solution for HPC and AI workloads</b>	<ul style="list-style-type: none"> <li>• Describe the HPE portfolio for HPC and AI workloads</li> <li>• Summarize the benefits of the HPE GreenLake for HPC solution</li> </ul>	<ul style="list-style-type: none"> <li>• Design the management for an HPC and AI solution, using HPE Performance Cluster Manager</li> </ul>
<b>Designing a data protection solution</b>	<ul style="list-style-type: none"> <li>• Differentiate and recommend the components of the HPE data protection software portfolio</li> <li>• Describe the HPE Cloud Bank Storage feature, including use cases for cloud backup, recovery, and archive</li> </ul>	<ul style="list-style-type: none"> <li>• Recommend and explain the data protection options available for HPE GreenLake, including:               <ul style="list-style-type: none"> <li>– HPE Backup and Recovery Service</li> <li>– Zerto integration</li> </ul> </li> </ul>

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H61Z2S B.00, July 2024