



# HPE ProLiant Gen8 Capabilities and Technologies HK925S

<b>HPE course number</b>	HK925S
<b>Course length</b>	2 days
<b>Delivery mode</b>	ILT
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The core objective of this course is to provide participants with an overview of HPE ProLiant Gen8 capabilities, enabling technologies and changes in administration. Key tasks and tools are identified for deployment of ProLiant Gen8 servers from bare-metal. Core administrative tools and differences from previous HPE ProLiant generations along with firmware management and intelligent provisioning are among the new capabilities discussed. Finally, this course will show how key new features of the Integrated Management Console will streamline server and infrastructure administration.

## Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training\*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services\*
- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and (ISC)²
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

## Hands on labs

Courseware will include lab guide as well as video overview to complement technical configuration topics where equipment may not be available.

## Audience

Administrators, engineers and consultants who install, configure, and support HPE ProLiant servers.

## Prerequisites

HPE recommends that students have attained the following credentials or levels of experience before taking this course:

- Recommend that participants are familiar with G7 ProLiant Server software and tools
- Course also provides learning opportunity for participants new to HPE ProLiant Gen8

## Course objectives

- Provide participants with an overview of ProLiant Gen8 administration
- Cover key tasks and tools used to deploy ProLiant server from bare metal
- Identify Gen8 or core administration tools and differences
- Review HPE BladeSystem and Enclosure Firmware Management capabilities
- Review new features and functions of iLO
- Use the Services Media Library to identify new server engineering designs, components and capabilities

## Benefits to you

- Course provides participants opportunity for quick integration, implementation and use of HPE ProLiant Gen8 in their environment

## Detailed course outline

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### Module 0: Course overview

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#### Module 1: Capabilities and technologies overview

- Identify server product capabilities and tools to deploy and administer
  - Review changes in ProLiant server product line:
    - HPE ProLiant Hyperscale
    - HPE ProLiant DL e and p series
    - HPE ProLiant SL Extreme Scale-Out
    - HPE ProLiant BL BladeSystem-Moonshot and Project Odyssey
  - Identify supported operating systems and resources
  - Engage Services Media Library for online parts and video resources
  - Customer use cases to see how HPE ProLiant Gen8 servers are implemented
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#### Module 2: Intelligent infrastructure and Gen8

- Identify infrastructure management and provisioning capabilities supporting HPE ProLiant Gen8:
    - Intelligent rack and management
    - Intelligent PDU and management
    - Intelligent environmental controls
    - Power planning considerations
    - Data Center Environmental Edge
    - Power capping and server capacity planning with intelligent infrastructure
    - HPE Performance Optimized Datacenter POD and Factory Integration
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#### Module 3: iLO management engine

- Identify capabilities of the HPE Integrated Management Console
  - Plan and implement server configurations:
    - System BIOS changes
    - Service Pack for ProLiant supporting roles
    - Script and scripting changes for automated provisioning
    - HPE BladeSystem Onboard Administrator advancements for provisioning automation
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#### Module 4: Gen8 ROM and boot process

- Describe the changes to Gen8 ROM
  - Describe the technology changes supported by the Gen8 ROM
  - Describe the Gen8 boot process
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#### Module 5: Intelligent Provisioning

- Describe the functions of Intelligent Provisioning
  - Describe how to access Intelligent Provisioning
  - Describe how to deploy an OS using Intelligent Provisioning
  - Describe how to configure a ProLiant server using Intelligent Provisioning
  - Describe the diagnostic utilities available from Intelligent Provisioning
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#### Module 6: Agentless management

- Describe the components of Agentless management
  - Describe how Agentless management works in Gen8 ProLiant servers
  - Describe how Agentless management interacts with other HPE Software
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#### Module 7: Service Pack for ProLiant (SPP)

- Describe the Service Pack for ProLiant (SPP)
  - Describe the support strategy for the SPP
  - Describe how to use the SPP
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## Course data sheet

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### Module 8: Closing

- HPE ProLiant Gen8 Next Steps to CORE Success: This section reviews the course and closes to establish learner next steps and summarize key learning points and questions from participants
    - Concepts
    - Objectives
    - Revisit participant learning objectives, job aids, learning plans
    - Energizers—next steps:
      - HPE and Partner conversations
      - Other Courses from HPE Education
      - Conferences
      - Certification for Competency
      - Customer Gen8 successes
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