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## HPE BladeSystem Administration

**Cursusduur: 3 Dagen    Cursuscode: HE646S    Trainingsmethode: Virtual Learning**

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### Beschrijving:

This course provides instruction on HPE BladeSystem administration and management. Discussion of the portfolio overview ensures an understanding of components, configurations, and solutions.

#### Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor) of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

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### Doelgroep:

System administrators, engineers and consultants who install, manage, and monitor the HPE BladeSystem c-Class environment

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### Doelstelling:

- After completing this course, the student should be able to:
  - Explore the functional architecture of the HPE BladeSystem c-Class environment
  - Identify the management infrastructure (Insight Display, Onboard Administrator)
  - Review the HPE BladeSystem c-Class portfolio and equipment capabilities
  - Review the power and cooling system
  - Identify high-level functionalities of HPE ProLiant Generation 10 (Gen10) servers
  - Describe the HPE BladeSystem c-Class interconnect module architecture
  - Introduce Virtual Connect management (Virtual Connect Manager, HPE OneView)
  - Become familiar with HPE BladeSystem scripting
  - Explain how to update the firmware on an HPE BladeSystem
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### Vereiste kennis en vaardigheden:

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

- Introduction to HPE ProLiant Servers (HE643S) or similar experience
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## Cursusinhoud:

### Module 1: HPE BladeSystem Portfolio Introduction

- Identify resources for information about the current HPE c-Class BladeSystem portfolio
- Differentiate the two types of HPE BladeSystem enclosures
- Identify HPE server blades
- Discuss enclosure connectivity
- Explain the HPE OneView management appliance
- Differentiate HPE storage blades
- Explain HPE BladeSystem update tools
- Discuss HPE infrastructure management and services

### Module 2: HPE BladeSystem c-Class Enclosures

- Describe the HPE BladeSystem c-Class enclosures
- Describe the c-Class enclosure structure
- Explain c-Class enclosure signal midplane and power backplane
- Explain how to access the Onboard Administrator
- Define the enclosure numbering scheme

### Module 3: HPE BladeSystem Enclosure Management

- List the initial steps involved in setting up the c7000 enclosure using the:

#### HPE Insight Display Initial Setup Wizard

#### HPE Onboard Administrator First Time Setup Wizard

- Describe the OA enclosure high availability
- Identify the OA configuration options
- Describe the OA command line interface

### Module 4: HPE c-Class Power and Cooling

- Explain how to configure power for an HPE BladeSystem c-Class enclosure
- Explain how to control and view power consumption in a c-Class enclosure to configure its efficiency
- Explain HPE BladeSystem c-Class power management
- Describe HPE Intelligent Location and Power Discovery services
- Describe the structural cooling components and features of c-Class enclosures

### Module 5: HPE BladeSystem c-Class BladeServers

- Describe the HPE BladeSystem I/O technologies on the system board:

### InfiniBand

### SAS

- Describe the mezzanine cards and slots available in the BladeSystem c-Class server blades
- Explain the enclosure signal pathing
- Describe the port mapping for HPE BladeSystem enclosures

### c7000

### c3000

- Explain the HPE Virtual Connect technology
- Explain the HPE OneView management appliance

### Module 7: HPE BladeSystem OneView Management

- Explain the HPE OneView management appliance
- Explain physical and logical resources in HPE OneView
- Explain Converged Infrastructure management
- Explain how to manage HPE OneView server profiles
- Describe differences between HPE OneView or VCM/
- VCEM management

### Module 8: HPE BladeSystem c-Class Firmware

- Determine the firmware that is embedded in various components in the enclosure and how to update it
- Explain how to access the SPP, SUM and supporting documentation
- Define the interdependencies and update best practices for HPE enclosure components
- Describe how to update the firmware for the HPE OA
- Explain how to use SUM for enclosure-based firmware management and software updates
- Explain how to update the firmware on HPE Blade servers
- Explain how to update the firmware on Integrity servers
- Explain how to update the firmware on HPE OneView managed systems

### Module 9: Configuring the Enclosure Using Scripting

### Detailed lab outline

#### Lab 1: Using the BladeSystem Insight Display

#### Lab 2: Using the Onboard Administrator GUI Lab

#### Lab 3A: Using the Onboard Administrator CLI Lab

#### Lab 3B: Using the PowerShell cmdlets

#### Lab 4A: Managing Power with the Onboard Administrator

#### Lab 4B: Using the HPE Power Advisor

#### Lab 5: Using HPE BladeSystem c-Class Enclosure-based USB Devices

#### Lab 6: HPE BladeSystem c-Class c7000 Port Mapping

#### Lab 7: Using Enclosure Firmware Management

#### Lab 8: Using the Service Pack for ProLiant in Online Mode

#### Appendix Lab 1: Exploring HPE Virtual Connect Manager

#### Appendix Lab 2: Using the Service Pack for ProLiant in Offline Mode

FlexibleLOM	<ul style="list-style-type: none"> <li>■ Review the OA CLI access</li> <li>■ HPE iLO scripting via the Onboard Administrator (HPONCFG)</li> </ul>
Mezzanines	<ul style="list-style-type: none"> <li>■ Introduce PowerShell OA configuration commands</li> <li>■ Introduce PowerShell iLO configuration commands</li> </ul>
USB and SD cards	<ul style="list-style-type: none"> <li>■ Introduce other iLO RESTful API libraries</li> <li>■ Discuss OA CLI scripting</li> </ul>
<ul style="list-style-type: none"> <li>■ Describe the features and components of storage blades, tape blades, and expansion blades</li> <li>■ Identify c-Class Integrity servers and their requirements</li> <li>■ Manage certain options of your server blades from the OA GUI</li> <li>■ Describe the server iLO interaction with the OA</li> </ul>	Module 10: Course Closing
Module 6: HPE BladeSystem c-Class connectivity options	<ul style="list-style-type: none"> <li>■ Closing the course</li> <li>■ Learning objectives</li> </ul>
<ul style="list-style-type: none"> <li>■ Describe the HPE BladeSystem c-Class interconnect module architecture</li> <li>■ List the BladeSystem c-Class interconnect modules</li> </ul>	Participant learning goals
Ethernet	<ul style="list-style-type: none"> <li>■ Training from HPE Education Services</li> <li>■ HPE Education Services</li> <li>■ HPE certification and learning program</li> <li>■ Concepts</li> <li>■ HE646 Course objectives review</li> <li>■ Energizers</li> </ul>
Fiber Channel	Conversations
	Eye on blades blog: Trends in infrastructure
	HPE Discover conference
	<ul style="list-style-type: none"> <li>■ Case studies</li> </ul>
	HPE server customer case studies

## Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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