**HPE Synergy Administration**

**H0LN3S**

This 3-day course provides instruction on HPE Synergy configuration, administration, management, troubleshooting and maintenance. This hands-on course covers day-to-day administration skills on HPE Synergy Composer, storage module, compute modules, frame management, fabric connectivity, multi-frame domains and server profile management. Students also learn about HPE Global Dashboard features.

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### Course data sheet

<table>
<thead>
<tr>
<th>HPE course number</th>
<th>H0LN3S</th>
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<tbody>
<tr>
<td>Course length</td>
<td>3 days</td>
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<tr>
<td>Delivery mode</td>
<td>ILT, VILT</td>
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### Audience

- System administrators, engineers and consultants who install, manage, and monitor HPE Synergy systems
- New HPE Synergy customers or HPE BladeSystem c-Class customers interested in HPE Synergy

### Prerequisites

- H0LN2AAE HPE Synergy Overview WBT
- H0LN5AAE HPE Synergy Installation and Configuration WBT
- H0LN6AAE HPE Synergy Management and Use Overview WBT
- Basic networking and HPE OneView experience is recommended
- HPE OneView QuickStart (H7H10S)

### Course objectives

At the conclusion of this course, the student will be able to:

- Introduce Composable Infrastructure (basic concepts) and HPE Synergy domains
- Explore the functional architecture of the HPE Synergy environment, including management infrastructure (HPE Synergy Composer and Frame Link Modules), compute modules, interconnect modules, local storage systems, power and cooling equipment capabilities
- Review the HPE Synergy Portfolio and equipment capabilities
- Explain the HPE Synergy Master/Satellite interconnects topology and cabling
### Detailed course outline

#### Module 1: HPE Synergy Overview

- HPE Synergy 12000 Frame
- HPE Synergy Gen10 compute modules
- HPE Synergy interconnect modules
  - Master modules
  - Satellite modules
  - Fiber channel interconnect modules
  - SAS connection and pass-through module
- HPE Synergy D3940 Storage Module
- HPE Synergy management appliances
  - HPE Synergy Composer (brief overview)
  - HPE Synergy Composer2 (brief overview)
  - HPE Synergy 2-port Frame Link Module
  - HPE Synergy 4-port Frame Link Module

#### Module 2: HPE Synergy Configuration and Cabling

- Configuring hardware
  - Minimum hardware requirements
  - Bay numbering schemes
  - Mezzanine card placement
  - Storage connectivity
- HPE Synergy cabling
  - Management network cabling
  - Storage connectivity
  - Power supply cabling

#### Module 3: ILT Cabling and Hardware Setup

- Interconnect link topology
  - HPE VC SE 40Gb F8 master module
  - Mixed speed satellite ICM topology
  - HPE VC SE 100Gb F32 master module
  - Migration and grow use cases
- ICM master M-LAG
- Accessing HPE Synergy Composer
- Hardware setup

#### Module 4: Configuring Storage

- New features
- SAN Manager and auto zoning configuration
- Storage management
  - Adding a managed storage system
  - Adding a storage pool
  - Direct attached storage (FlatSAN)
- HPE OneView Nimble Storage integration
- HPE OneView and storage system ports
- Volumes and Volume Templates
- Adding and creating volumes
- Monitoring storage

#### Module 5: Working with HPE OneView for Synergy

- Configuring connectivity in HPE OneView
  - Configuring SANs, networks, network sets and ID pools
  - Increased VLAN scale for network sets
- HPE Synergy specific configurations
  - Logical interconnect groups
  - Enclosure groups
  - Logical enclosures

#### Module 6: Working with Server Profiles

- Server profiles
  - Server profile templates and server profiles
  - LACP over downlinks for end-to-end aggregation
  - Configuring storage controller
  - Logical JBOD
  - Logical drive
  - Erase on delete
  - Secure boot
- Resource action menus
- Security features
  - Storm control
  - VC private networks
  - Scope-based access control
  - Two-factor authentication
  - Certificate management
### Module 7: HPE Synergy Management and Troubleshooting
- Troubleshooting upon Hardware Setup
- Backup and restore
- Frame numbering and naming conventions
- Support dumps
- CLI connectivity and login methods
  - Access to components from the HPE Synergy console
- Other support procedures
  - HPE Synergy Composer factory reset
  - Reimaging HPE Synergy Composer

### Module 8: HPE Synergy Scaling
- Scaling frames in HPE Synergy
- Adding a remote management ring
- Frictionless scaling of a logical enclosure
  - The procedure for scaling from one to two frames
  - The procedure for scaling from two to more frames
  - Scaling with 25/50 Gb interconnect link modules

### Module 9: HPE Synergy Firmware Update Best Practices
- Introduction to firmware update methods
- Firmware updates of HPE Synergy components
  - Management appliances firmware update
  - Shared infrastructure firmware update
  - Synergy VC fabric interconnect firmware updates
  - Compute module firmware update
- Firmware compliance and reporting
- Acquiring firmware and drivers
- Firmware and drivers best practices
  - Firmware update frequency
  - Recommended firmware update order
  - Alternative firmware update options
  - Additional tips and best practices

### Module 10: HPE Synergy Remote Support and Monitoring
- Introduction to Remote Support
- Enabling and disabling Remote Support
- HPE OneView Global Dashboard
  - Introduction
  - Features
  - Limitations and requirements
- Deploying a virtual appliance
- First-time setup
- Exploring the dashboard user interface
- Features

### Module 11: HPE Synergy-Related Information Sources and Services
- Additional information on diagnostics and troubleshooting
- Support documents
  - Resources, services, HPE community, helpful links

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