HPE Synergy Administration
H0LN3S

This 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.

### 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
Basic networking and HPE OneView experience is strongly recommended, or complete the following courses:
- H0LN2AAE HPE Synergy Overview WBT
- H0LP6AAE HPE OneView Overview and Configuration for Synergy

### 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
- Review the HPE Synergy portfolio and equipment capabilities
- Explain the HPE Synergy master/satellite interconnects, topology, and cabling

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# Detailed course outline

## Module 1: HPE Synergy Solution
- Solution overview
  - Planning steps
  - Configuration steps
- Hardware overview
- Management appliances
- Frame management cabling
- Power cabling
- Interconnect link topology
- Accessing HPE Synergy Composer

## Module 2: HPE Synergy Cabling
- Ethernet modules
- Interconnect link topology
- Ethernet traffic flow

## Module 3: HPE Synergy Networking
- Network connectivity settings
- Address identifier service
- Network, network sets
- Logical interconnect groups
- Enclosure groups
- Logical enclosure
- Interconnect settings, LACP load balancing

## Module 4: HPE Synergy Storage
- SAN configuration
- Storage management
- SAN Manager
- Networks
- Zoning
- Fabric
- Composable arrays
- Volumes and volume templates
- Storage options
  - Storage array
  - D3940

## Module 5: HPE Synergy Composability
- Server hardware
  - HPE Synergy Gen10 Compute, iLO 5
- Server hardware types
- Server profile template
- Server profile
- Physical addressing
- Compliance

## Module 6: HPE Synergy Firmware
- Current HPE OneView Updates
- Acquiring firmware
- Interconnect firmware updates
- Compute firmware
- OS tools
- Appliance firmware
- Upgrading hardware
- Preparing to upgrade
- Best practices
- Tools
- Compliance
- References

## Module 7: 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 8: HPE Synergy Maintenance and Growth
- Maintenance topics
- Remote management ring
- Adding frames
- Composer upgrades
- Composer migration
- Fm move to 4 port
- Changing Ethernet fabric
- New LIGIEG, reparent LE