HPE Digital Learner Composable Content Pack

This content pack provides information and skills related to HPE Synergy solution implementation, configuration, administration and management. Starting with an overview of the infrastructure, compute, storage and fabric options will help those specifying a Composable solution. From here, the curriculum provides a baseline understanding for system administrators setting up and configuring the infrastructure before introducing the HPE OneView appliance. The later courses in the content pack provide the skills to manage the solution through common tasks.

NOTE: This content pack has two components:
1. Web-based training available online.
2. Hands-on practice, available through the HPE Virtual Labs.

You have a year of access to the web-based portion of the training, so that you may repeat sections for reinforcement. Take this training at your own pace and on your own schedule. You have 30 sequential days of access to the HPE Virtual Labs to run the labs associated with this course in a dedicated environment.

**Audience**
System Administrator, engineers and consultants who will install, manage and monitor HPE Synergy solutions. Relevant to HPE ProLiant and HPE BladeSystem customers planning a move to Composable Infrastructure.

**Prerequisites**
HPE recommends that students starting this content pack have basic server, storage and networking industry experience.
Content Pack objectives

By the end of this content pack curriculum path, you should be able to meet the following objectives:

• Explain the concept of Composable Infrastructure, its technologies, components and benefits.

• Explore the functional architecture of the HPE Synergy environment, including management infrastructure (HPE Synergy Composer, Frame Link Modules), compute modules, interconnect modules, local storage systems, power and cooling.

• Identify and correctly position and cable the management and networking modules in a HPE Synergy frame.

• Understand how to access the HPE OneView management appliance to initiate the hardware discovery. Then perform initial tasks to set-up hardware including the Composer.

• Navigate the HPE OneView dashboard, locate current information on firmware, server inventory and generate basic reports. Perform firmware updates using the integrate Smart Update Tool.

• Have the knowledge to install HPE OneView appliance to manage and maintain firmware, implement compute and networking configurations, monitor the data center, and respond to issues.
### HPE Synergy Solutions Overview

This course presents an introduction to the HPE Synergy Solution and prepares the learner to take more advanced training on HPE Synergy. Course topics include a tour of the HPE Synergy system and its components, installation and configuration information, coverage of the management interfaces and firmware updates, and troubleshooting information.

**Course Outline**
- Module 1: What is HPE Synergy
- Module 2: Product Overview
- Module 3: Hardware Install and Configuration
- Module 4: Software Install and Configuration
- Module 5: Software Management and Use
- Module 6: Troubleshoot and Resolve
- Module 7: Repair
- Module 8: Use cases

### HPE OneView Overview and Configuration for Synergy

This self-paced course covers the features and functions of HPE OneView in relation to the configuration and management of HPE Synergy solutions. Students will learn to navigate the HPE OneView dashboard and use it to locate current information on firmware versions, server inventory, and to generate basic reports. Students will then perform initial tasks to set up hardware and configure HPE Synergy Composer.

**Course Outline**
- Module 1: HPE Synergy Overview
- Module 2: HPE OneView Dashboard
- Module 3: HPE OneView reporting
- Module 4: HPE OneView resource model
- Module 5: Getting started with HPE OneView
- Module 6: Unified API – Automating Synergy Frame logical configuration with PowerShell
- Module 7: Firmware and Driver updates with Smart Update Tools

### HPE Synergy Administration

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 module, frame management, fabric connectivity, multi-frame domains and server profile management. Students will also learn about HPE Global Dashboard features.

**Course Outline**
- Module 1: HPE Synergy Overview
- Module 2: HPE Synergy Configuration and Cabling
- Module 3: ILT Cabling and Hardware Setup
- Module 4: Configuring Storage
- Module 5: Working with HPE OneView for Synergy
- Module 6: Working with Server Profiles
- Module 7: HPE Synergy Management and Troubleshooting
- Module 8: HPE Synergy Scaling
- Module 9: HPE Synergy Firmware Update Best Practices
- Module 10: Remote Support and Monitoring
- Module 11: HPE Synergy-Related Information Sources and Services
- Module 12: Exploring HPE Synergy Environment
- Module 13: Configuring connectivity
- Module 14: Configuring storage
- Module 15: Creating LIGs, EG, LE
- Module 16: Using server profiles

### Using REST API with HPE OneView

In this course you will learn to work with the HPE OneView REST API. You will create/edit/remove resources with the REST API using different access methods – through Postman, cURL, and PowerShell. You will see demonstrations of each topic and then you will have the chance to practice what you’ve learned within a virtual lab environment.

**Course Outline**
- Module 1: Course Introduction
- Module 2: REST API Resources and Operations
- Module 3: Tools and Techniques for Exploring and Troubleshooting HPE OneView APIs
- Lab Outline
  - Lab 01 – Exploring the HPE Synergy DCS Environment Course Introduction
  - Lab 02 – REST API
  - Lab 03 – Using the OneView PowerShell Library for REST API Scripting