

# HPE Digital Learner Composable Content Pack

<b>HPE Content Pack number</b>	CP005
<b>Content Pack length</b>	24 Hours
<b>Content Pack category</b>	Category 1
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## Why HPE Education Services?

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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.

## 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.

## Recommended learning

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, HPE Synergy Image Streamer, 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 and Image Streamer
- 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

## Detailed Content Pack outline

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### HPE Synergy Solutions Overview

This course presents an introduction to the HPE Synergy Solution system and provides the information necessary to prepare the learner to take more advanced training on the HPE Synergy Solution. This course covers the HPE Synergy Solution system including the 2018 release of Synergy Gen10 modules and components. 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.

#### Outline

- Module 1: What is HPE Synergy?
- Module 2: Product Overview
- Module 3: Hardware Install & Configure
- Module 4: Software Install & Configure
- Module 5: Software Management & Use
- Module 6: Troubleshoot & Resolve

### HPE Synergy Installation and Configuration

The HPE Synergy Installation and Configuration WBT course presents an introduction to the tasks required to install and configure an HPE Synergy system. After an overview of the HPE Synergy product, information is provided on installation requirements, identifying HPE Synergy components, cabling the HPE Synergy Frame, using HPE Synergy Image Streamer for operating system deployment, and how to access HPE OneView and use it to configure the HPE Synergy system.

#### Outline

- Module 1: HPE Synergy Overview
- Module 2: HPE Synergy Installation
- Module 3: Identifying HPE Synergy Components
- Module 4: Cabling the HPE Synergy Frame
- Module 5: HPE Synergy Image Streamer for OS Deployment
- Module 6: Accessing and Configuring HPE Synergy through HPE OneView

### HPE Synergy Management and Use Overview

The HPE Synergy Management and Use Overview course presents the overview of the management and use features of the HPE Synergy system. After an introduction to the HPE Synergy environment, the course describes the HPE Synergy Frame and the components that allows it to support composable infrastructure. The course also covers HPE Synergy fabric management, how to access the system, and how to configure and manage the system using HPE OneView. In addition, the course lists useful resources that can help you become more familiar with HPE Synergy

#### Outline

- Module 1: HPE Synergy Introduction
- Module 2: HPE Synergy – A Composable Frame
- Module 3: HPE Synergy Fabric Management
- Module 4: Accessing Synergy using HPE OneView
- Module 5: HPE Synergy Configuration and Management
- Module 6: HPE Synergy Documentation

### 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 and Image Streamer

#### 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
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**HPE Synergy Administration**

The HPE Synergy Administration course provides an introduction to the tasks required to administer an HPE Synergy system. Information is provided on working with HPE OneView for Synergy and HPE Image Streamer to configure the software components of an HPE Synergy system. Also covered are scaling the system, best practices for firmware updates, and troubleshooting problems with the system. The course includes several demos showing how to use HPE OneView to manage and configure the system.

**Outline**

- Module 1: HPE Synergy Overview
- Module 2: Cabling, Configuration, and Hardware Setup
- Module 3: HPE Synergy Image Streamer
- Module 4: Working with HPE OneView for Synergy and Image Streamer GUI
- Module 5: Management and Troubleshooting
- Module 6: Scaling within a Management Ring
- Module 7: Firmware Update Best Practices
- Module 8: Remote Support and Monitoring
- Module 9: HPE Synergy-Related Information Sources and Services

**Lab Outline**

- Module 2: Exploring HPE Synergy
- Module 3: Configuring connectivity
- Module 4: Configuring storage
- Module 5: Creating LIGs, EG, LE
- Module 6: Using server profiles
- Module 7: Using global dashboard
- Module 8: Updating firmware
- Module 9: Maintaining HPE Synergy

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