



# HP BladeSystem Networking, Rev. 14.12

## Course description

This course describes how the HP Virtual Connect family of interconnect solutions, which are modules deployed in HP BladeSystem enclosures, can be used to enable server blades, also installed in the BladeSystem, to access IP and storage networks. A variety of supporting networking technologies is also covered, including protocols and standards applicable to Layer 1, 2, and 3, that are commonly encountered when working with data center solutions encompassing local area and storage area networks.

## Who should attend

An HP employee, a channel partner, or a customer who needs to learn how to describe, position, and demonstrate the HP Virtual Connect features and capabilities.

## Prerequisites

For complete prerequisites and requirements to achieve any of the related certifications or upgrade paths, see the certification description on the HP ExpertOne website.

## Topics

- Module 1: Networking overview and network management
  - Provide an overview of network types and networking techniques
  - Describe strategies for network management
- Module 2: Layer 2 concepts
  - Explain these OSI Model Layer 2 concepts: VLANs, link aggregation, Spanning Tree Protocols, and Layer 2 alternatives to Spanning Tree
- Module 3: Layer 3 concepts
  - Explain these OSI Model Layer 3 concepts: switching, routing, and forwarding
- Module 4: Network security, performance optimization, and virtual switching
  - Identify strategies for providing network security
  - Explain how to attain network QoS
  - Describe virtual switching concepts
- Module 5: HP Virtual Connect for Ethernet
  - Define terms that relate to Virtual Connect technology in an Ethernet environment
  - Explain Virtual Connect and list its components
  - Describe the features and functions of VCM and VCEM
  - Compare the HP Virtual Connect Ethernet interconnects supported in BladeSystem enclosures
  - Explain how to manage server VLAN tagging support
  - Describe the lab environment
  - Perform associated hands-on labs and debrief
- Module 6: HP Virtual Connect for Fibre Channel
  - Define terms that relate to Fibre Channel technology
  - Compare the Virtual Connect Fibre Channel modules supported in BladeSystem enclosures
  - Discuss the technologies supported by Virtual Connect Fibre Channel modules
  - Explain how to enable converged network deployments in a data center
  - Perform associated hands-on labs and debrief
- Module 7: HP Virtual Connect FlexFabric
  - Describe the HP Virtual Connect FlexFabric technology, components, functionality, and configuration
  - Perform associated hands-on labs and debrief
- Module 8: HP Virtual Connect Stacking
  - Explain how to implement Virtual Connect stacking
  - List the VC FlexFabric module stacking rules
  - Perform associated hands-on labs and debrief

## Objectives

After completing this course, you should be able to do the following:

<b>Course ID</b>	00836926
<b>Course format</b>	ILT
<b>Typical Course length</b>	3 days
<b>Delivery languages</b>	English
<b>Related certifications</b>	<ul style="list-style-type: none"> <li>• <a href="#">HP ASE - Server Solutions Integrator V8.1</a></li> </ul>

[Register for this course.](#)

Find this course in the Training calendar and click the “Register” link in the last column to begin your registration.

- Provide an overview of network types and networking techniques.
- Describe strategies for network management.
- Explain these OSI Model Layer 2 concepts: VLANs, link aggregation, Spanning Tree Protocols, and Layer 2 alternatives to Spanning Tree.
- Explain these OSI Model Layer 3 concepts: switching, routing, and forwarding.
- Identify strategies for providing network security.
- Explain how to attain network QoS.
- Describe virtual switching concepts.
- Define terms that relate to Virtual Connect technology in an Ethernet environment.
- Explain Virtual Connect and list its components.
- Describe the features and functions of VCM and VCEM.
- Compare the HP Virtual Connect Ethernet interconnects supported in BladeSystem enclosures.
- Explain how to manage server VLAN tagging support.
- Describe the lab environment.
- Perform associated hands-on labs and debrief.
- Define terms that relate to Fibre Channel technology.
- Compare the Virtual Connect Fibre Channel modules supported in BladeSystem enclosures.
- Discuss the technologies supported by Virtual Connect Fibre Channel modules.
- Explain how to enable converged network deployments in a data center.
- Perform associated hands-on labs and debrief.
- Describe the HP Virtual Connect FlexFabric technology, components, functionality, and configuration.
- Perform associated hands-on labs and debrief.
- Explain how to implement Virtual Connect stacking.
- List the VC FlexFabric module stacking rules.
- Perform associated hands-on labs and debrief.

## How to register

Click on this link to register for this course: [Register for this course.](#)

## Policies, fees and cancellations

Course fees may vary and are established and collected by the training center delivering the course. Cancellation fees may apply. Contact your HP Authorized Training Partner for their respective policies.

## For more information

HP ExpertOne: [www.hp.com/go/ExpertOne-ContactUs](http://www.hp.com/go/ExpertOne-ContactUs)

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