



# Expert Series Seminar—HPE Ethernet Virtual Interconnect (EVI) H8D13S

This course consists of an introduction to the HPE's HPE Ethernet Virtual Interconnect (EVI). The course is designed to provide an overview of the technology and includes a Hands On Lab (HOL) to help reinforce the aspects covered.

<b>HPE course number</b>	H8D13S
<b>Course length</b>	3-4 hours
<b>Delivery mode</b>	ILT
<b>View schedule, local pricing, and register</b>	<a href="#">View now</a>
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## Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training\*
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- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and (ISC)²
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

## Course description

This course introduces EVI technology to experienced networking professionals. Participants will learn how HPE Ethernet Virtual Interconnect (EVI) is implemented in the HPE Comware 7 platform, and will have opportunities to practice configuring EVI and performing verification of the functioning configuration

This course is approximately 25 percent lecture and 75 percent hands-on lab activities

## Audience

- IT professionals who will deploy and manage networks based on HPE Comware products

## Prerequisites

- Students should possess experience with networking and common LAN protocols

## Course objectives

- Describe, implement and verify HPE Ethernet Virtual Interconnect (EVI)

## Benefits to you

- This course will enhance your knowledge and skills in several areas of networking. You will gain proficiency in using the HPE Comware CLI. As a learner you will have sole control of set of equipment, in a zero risk environment and dedicated for you

\*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

## Detailed course outline

<b>Module 1: EVI Overview</b>	<ul style="list-style-type: none"> <li>• Introduction to EVI</li> <li>• EVI Operation</li> <li>• EVI Configuration</li> </ul>
<b>Module 2: Supported Products</b>	<ul style="list-style-type: none"> <li>• Chassis Models</li> <li>• Router Models</li> </ul>
<b>Module 3: EVI Operation</b>	<ul style="list-style-type: none"> <li>• EVI Terminology</li> <li>• EVI Concepts</li> <li>• EVI Network</li> <li>• EVI Neighbor Discovery</li> <li>• EVI Traffic Forwarding process             <ul style="list-style-type: none"> <li>– Unicast</li> <li>– Multicast</li> <li>– Flooding</li> </ul> </li> </ul>
<b>Module 4: EVI Traffic Optimization</b>	<ul style="list-style-type: none"> <li>• ARP Suppression</li> <li>• Selective Flooding</li> </ul>
<b>Module 5: EVI IS-IS Maximum MAC Address Announcement</b>	
<b>Module 6: Design considerations</b>	<ul style="list-style-type: none"> <li>• Automatic Loop Avoidance</li> </ul>
<b>Module 7: Distributed L3 Gateway</b>	<ul style="list-style-type: none"> <li>• Active/Active DC design</li> <li>• Active/Stand-by DC design</li> </ul>
<b>Module 8: WAN Link Load balancing</b>	
<b>Module 9: Location Awareness</b>	
<b>Module 10: Encryption Support</b>	<ul style="list-style-type: none"> <li>• Layer 2 based encryption - MacSec</li> <li>• Layer 3 based encryption - IPsec</li> </ul>
<b>Module 11: Hybrid Cloud Solution with EVI /VSR</b>	
<b>Module 12: HSR/MSR for End to End DC Cloud Solution</b>	
<b>Module 13: Configuration Steps for EVI</b>	<ul style="list-style-type: none"> <li>• Basic configuration steps             <ul style="list-style-type: none"> <li>– Step 1: Configure the EVI Site-ID (Optional)</li> <li>– Step 2: Configure the Transport Interface</li> <li>– Step 3: Configure the EVI Tunnel Interface</li> <li>– Step 4: Configure the EVI Network ID</li> <li>– Step 5: Configure the Extended VLANs</li> <li>– Step 6: Configure ENDS</li> <li>– Step 7: Configure ENDC</li> <li>– Step 8: Verify</li> </ul> </li> <li>• Advanced configuration options             <ul style="list-style-type: none"> <li>– Advanced Step 9: ARP Suppression</li> <li>– Advanced Step 10: Selective Flooding</li> <li>– Advanced Step 11: Virtual-system IDs</li> </ul> </li> </ul>
<b>Module 14: Lab Activity</b>	<ul style="list-style-type: none"> <li>• Setting up an EVI Tunnel</li> </ul>
<b>Module 15: Learning Check</b>	

## Course data sheet

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