



# HPE Unified Wired-Wireless Networks H4C82S

The wireless networking field is rapidly overtaking the traditional wired switched networks as the preferred layer one connectivity option with the proliferation of wireless only mobile devices and the growing expectations of users to have unfettered access anywhere anytime. HPE Unified Wired-Wireless Networks will provide you with the skills and knowledge to design and implement a mobility solution with the HPE Unified Wired and Wireless controller.

<b>HPE course number</b>	H4C82S
<b>Course length</b>	3 days
<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\*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services\*
- 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

The HPE Unified Wired-Wireless Networks training course covers HPE's Unified Wired and Wireless Access solution. Whether enabling mobility across the campus or the globe, HPE's unified wired and wireless solution provides you with a single optimized and scalable unified network for secure and consistent access to business-critical applications.

This course is approximately 60 percent hands-on labs and 40 percent lecture and learning activities.

## Audience

- HPE customers implementing HPE Unified Wireless solutions
- IT professionals with wired LAN and/or wireless experience
- Network Engineers and Administrators

## Prerequisites

Networking experience required (suggested HPE courses, HK651, HK652, or H4C87)

## Course objectives

After completing this course, you will be able to:

- Describe the components of the HPE FlexNetwork architecture
- Configure an HPE Unified Wired-WLAN switch
- Describe the 802.11 standards and techniques used to propagate wireless transmissions
- Describe specific radio properties that you should understand when implementing a wireless network
- Respond to and mitigate threats of intrusion that exists in a wireless medium through establishing a security posture with strong authentication, privacy, and data integrity
- Upgrade and manage the licenses of the HPE Unified Wired-WLAN controllers
- Describe and troubleshoot the AP discovery process and AP management
- Implement load balancing of clients
- Configure an appropriate AC redundancy solution
- Establish a guest solution utilizing HPE portal authentication

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

- Describe WLAN optimization and troubleshooting solutions
- Explain the benefits of WSM and EAD as part of an overall IMC deployment tool

## Detailed course outline

<b>Module 1: HPE FlexNetwork Architecture</b>	<p>After completing this module, you should be able to:</p> <ul style="list-style-type: none"> <li>• Explain the strategy of controlled versus autonomous AP deployment</li> <li>• Describe the components of a FlexNetworking architecture</li> <li>• Configure the initial setup steps of a HPE 830 Unified Wired-WLAN switch</li> </ul>
<b>Module 2: Wireless Features and Fundamentals</b>	<p>After completing this module, you should be able to:</p> <ul style="list-style-type: none"> <li>• Describe the 802.11 standards and techniques used to propagate wireless transmissions</li> <li>• Understand and explain the deployment options and terms surrounding wireless LANs</li> <li>• Describe the different modes in which WLANs can operate</li> </ul>
<b>Module 3: HPE Mobility Features and WLAN Security Basics</b>	<p>After completing this module, you should be able to:</p> <ul style="list-style-type: none"> <li>• Describe specific radio properties that you should understand when implementing a wireless network</li> <li>• Respond to and mitigate threats of intrusion that exists in a wireless medium through establishing a security posture with strong authentication, privacy, and data integrity</li> <li>• Provide an overview and describe the main features of HPE mobility</li> </ul>
<b>Module 4: Basic Configuration</b>	<p>After completing this module, you should be able to:</p> <ul style="list-style-type: none"> <li>• Understand and demonstrate the fundamentals of using the HPE Unified Wired-WLAN CLI</li> <li>• Utilize the different privilege levels and authentication methods available with HPE Unified Wired-WLAN devices</li> <li>• Establishing remote access to the HPE Unified Wired-WLAN device</li> <li>• Upgrade and manage the licenses of the HPE Unified Wired-WLAN controllers</li> <li>• Configure and troubleshoot management interfaces</li> <li>• View system files and establish system management practices</li> <li>• Configure VLANs and IP interfaces</li> <li>• Describe and troubleshoot the AP discovery process and AP management</li> </ul>
<b>Module 5: Wireless Services</b>	<p>After completing this module, you should be able to:</p> <ul style="list-style-type: none"> <li>• Describe the components of a Wireless Service</li> <li>• Recognize, respond to and mitigate wireless threats</li> <li>• Understand the options available to clients when connecting to a wireless service</li> </ul>
<b>Module 6: Enterprise Implementation</b>	<p>After completing this module, you should be able to:</p> <ul style="list-style-type: none"> <li>• Describe the requirements to enable roaming across the WLAN</li> <li>• Implement load balancing of clients</li> <li>• Configure an appropriate AC redundancy solution</li> <li>• Establish a guest solution utilizing HPE portal authentication</li> <li>• Describe WLAN optimization and troubleshooting solutions</li> <li>• Explain the benefits of WSM and EAD as part of an overall IMC deployment tool</li> </ul>

## Next steps

HPE Education Course H4C85S—Implementing a Unified BYOD Solution using HPE IMC 7.

## Course data sheet

Learn more at  
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