Hewlett Packard Enterprise

Aruba Instant Access Points H8D20S

HPE course number	H8D20S
Course length	3 days
Delivery mode	ILT , VILT
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Small or distributed organizations that require Wi-Fi access are often faced with many challenges, they require simplicity, since they often lack IT resources or RF knowledge, they are also constrained by cost or have compliance mandates. Aruba Instant Access Points (IAPs) are the only controllerless Wi-Fi solution that delivers superior Wi-Fi performance, business-grade security, resiliency and flexibility with the simplicity of zero-touch deployment. IAPs are simple to setup and do not require network expertize to deploy and manage, providing wizard configuration with a simple plug and play philosophy.

Audience

Network or systems administrators, network engineers, and consultants who plan to integrate Aruba networking solutions into their environment.

Prerequisites

Before attending this course, students must have:

- 802.11 Wireless Experience.
- Familiarity with wireless network standards and terminology.
- Familiarity with network design concepts.
- Experience in planning and installing a wireless network.

Course objectives

After completing this course, students will be able to:

- Understand how IAPs solve the Wi-Fi issues faced in small and distributed organizations.
- Gain confidence and hands-on experience working with IAPs solutions.
- Explain how IAPs provide enterprise grade access points with full features such as authentication, policy firewall, rogue containment and Adaptive Radio Management.

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Detailed Course Outline

Module 1: Instant Access Point Introduction.		
	• Standalone Site Issues	• Graphical User Interface (GUI)
	• Instant Aps Description and Features	• Local Initial Setup
	• IAP Clusters and VC	• Dynamic Installations
	• VC Election	• Lab
	• Country Codes	

Module 2: Aruba Instant WLAN.		
	• WLAN Wizard	• Instant SSID
	• WLAN Settings	• Zones
	• WLAN VLAN Selection	• Lab
	• WLAN Authentication	

Module 3: Aruba Instant Captive portal.		
	• Guest Introduction	• External Captive Portals
	• Configuring Captive Portal WLAN	• Clearpass Splash Page
	• VLAN Assignment	• Walled Garden
	• Sources of CP Page	• Lab
	• IAP Splash Page	

Module 4: Aruba Instant Firewall.		
	• Access Rules	• Extended Actions
	• Unrestricted Access	• Role Derivation
	• Network Based Rules	• Security
	• Role Based Rules	• Lab
	• Application Based Rules	

Module 5: Aruba instant AP User Troubleshooting.		
	• Main GUI page	• IAP Network View (WLAN)
	• Client View	• Spectrum Analysis
	• Support Commands	• AppRF
	• IAP Logs	• Lab
	• IAP GUI View	

Module 6: Aruba Instant ARM.		
	• ARM Introduction	• Client Match Introduction
	• ARM Scanning	• RF Neighborhood
	• ARM Indices	• Support Commands
	• Band Steering	• Lab
	• Airtime Fairness	

Module 7: Instant AP Mesh, Wired Access and Uplink.		
	• Introduction	• Wired Access Configuration
	• Mesh Setup	• Uplink Options
	• Outdoor Mesh	• Uplink Configuration
	• Wired Access Options	

Module 8: Aruba Instant Roaming.		
	• Roaming L2 vs L3	• Roaming between Clusters
	• Roaming within a Cluster	• Roaming back Home
	• Creating the HAP table	• Roaming Load Balancing

Module 9: Instant AP VPN.		
	• IAP VPN Deployment	• DHCP Option
	• VPN Tunneling Protocol	• IAP-VPN Troubleshooting
	• Controller IAP VPN Configuration	• Lab
	• IAP VPN Configuration	

Module 10: Instant AP IPS/IDS.		
	• Why need WIPS/WIDS	• Containment
	• Classification	• IDS Monitoring and Commands
	• Attacks	• Summarization
	• Rogue Detection	• Lab

Module 11: Instant AP Administrative Task.

- New Firmware
- Configuration Backup and Restore
- Configuration Reset and IAP Reset
- Converting IAP to RAP/CAP

- Admin User Roles
- Certificates
- Centralized Management
- Lab

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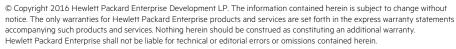hpe.com/ww/learnnetworking

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