

Configuring Mobility with AOS-8 Level 1 (0001202564)

H37YPS

Course ID	H37YPS
Duration	3 days
Format	ILT/VILT
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This course teaches the knowledge, skills and practical experience required to set up and configure a basic HPE Aruba Networking WLAN utilizing the AOS-8 architecture and features. Using lecture and labs, this course provides the technical understanding and hands-on experience of configuring a single Mobility Conductor with one controller and AP HPE Aruba Networking WLAN. Participants will learn how to use HPE Aruba Networking hardware and AOS-8 to install and build a complete, secure controller network with multiple SSIDs.

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Audience

Typical candidates for this course are IT Professionals who deploy small-to-medium scale enterprise network solutions based on HPE Aruba Networking products and technologies.

Course objectives

After completing this course, you should be able to:

- Explain how HPE Aruba Networking's wireless networking solutions meet customers' requirements
- Explain fundamental WLAN technologies, RF concepts, and 802.11 standards
- Learn to configure the Mobility Conductor and Mobility Controller to control access to the Employee and Guest WLANs
- Control secure access to the WLAN using HPE Aruba Networking firewall policies and roles

- Recognize and explain radio frequency bands and channels, and the standards used to regulate them
- Describe the concept of radio frequency coverage and interference and successful implementation and diagnosis of WLAN systems
- Identify and differentiate antenna technology options to ensure optimal coverage in various deployment scenarios
- Describe RF power technology including, signal strength, how it is measured, and why it is critical in designing wireless networks
- Learn to configure and optimize HPE Aruba Networking ARM and Client Match and Client Insight features
- Learn how to perform network monitoring functions and troubleshooting

Detailed course outline

Module 1: WLAN Fundamentals	<ul style="list-style-type: none"> Describes the fundamentals of 802.11, RF frequencies and channels 	<ul style="list-style-type: none"> Explain RF Patterns and coverage including SNR Roaming standards and QOS requirements
Module 2: Mobile First Architecture	<ul style="list-style-type: none"> An introduction to HPE Aruba Networking products, including controller types and modes 	<ul style="list-style-type: none"> AOS-8 architecture and features License types and distribution
Module 3: Mobility Conductor Mobility Controller Configuration	<ul style="list-style-type: none"> Understanding groups and subgroups Different methods to join Mobility Controller with Mobility Conductor 	<ul style="list-style-type: none"> Understanding hierarchical configuration
Module 4: Secure WLAN configuration	<ul style="list-style-type: none"> Identifying WLAN requirements such as SSID name, encryption, authentication Explain AP groups structure and profiles 	<ul style="list-style-type: none"> Configuration of WLAN using the Mobility Conductor GUI
Module 5: AP Provisioning	<ul style="list-style-type: none"> Describes the communication between AP and mobility controller Explain the AP booting sequence and requirements Explores the AP's controller discovery mechanisms 	<ul style="list-style-type: none"> Explains how to secure AP to controller communication using CPSec Describes AP provisioning and operations
Module 6: WLAN Security	<ul style="list-style-type: none"> Describes the 802.11 discovery, authentication and association Explores the various authentication methods, 802.1x with WPA/WPA2, and MAC auth Describes the authentication server communication 	<ul style="list-style-type: none"> Explains symmetric vs asymmetric keys, and encryption methods WIPS is described along with rogue discovery and protection
Module 7: Firewall Roles and Policies	<ul style="list-style-type: none"> An introduction into Firewall Roles and policies Explains HPE Aruba Networking's Identity based firewall 	<ul style="list-style-type: none"> Configuration of policies and rules including aliases Explains how to assign roles to users
Module 8: Dynamic RF Management	<ul style="list-style-type: none"> Explain how ARM calibrates the network selecting channels and power settings Explores AOS-8 Airmatch to calibrate the network 	<ul style="list-style-type: none"> How Client Match and Client Insight match steers clients to better APs
Module 9: Guest Access	<ul style="list-style-type: none"> Introduces HPE's solutions for guest access and the captive portal process Configuration of secure guest access using the internal captive portal 	<ul style="list-style-type: none"> The configuration of captive portal using ClearPass and its benefits Creating a guest provisioning account Troubleshooting guest access
Module 10: Network Monitoring and Troubleshooting Describe guest access	<ul style="list-style-type: none"> Using the Mobility Conductor dashboard to monitor and diagnose client, WLAN, and AP issues Traffic analysis using APPrf with filtering capabilities 	<ul style="list-style-type: none"> A view of AirWave's capabilities for monitoring and diagnosing client, WLAN and AP issues



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