

# Aruba Mobility Fundamentals, Rev. 19.21

## Course description

This course teaches the knowledge, skills and practical experience required to set up and configure a basic Aruba WLAN utilizing the OS 8.X architecture and features. Using lecture and labs, this course provides the technical understanding and hands-on experience of configuring a single Mobility Master with one controller and AP Aruba WLAN. Participants will learn how to use Aruba hardware and ArubaOS to install and build a complete, secure controller network with multiple SSIDs. This course provides the underlying material required to prepare candidates for the Aruba Certified Mobility Associate Exam.

## Ideal candidate for this course

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

## Topics

- **WLAN Fundamentals**
  - Describes the fundamentals of 802.11, RF frequencies and channels
  - Explain RF Patterns and coverage including SNR
  - Roaming Standards and QOS requirements
- **Mobile First Architecture**
  - An introduction to Aruba Products including controller types and modes
  - OS 8.X Architecture and features
  - License types and distribution
- **Mobility Master Mobility Controller Configuration**
  - Understanding Groups and Subgroups
  - Different methods to join MC with MM
  - Understanding Hierarchical Configuration
- **Secure WLAN configuration**
  - Identifying WLAN requirements such as SSID name, encryption, authentication
  - Explain AP groups structure and profiles
  - Configuration of WLAN using the Mobility Master GUI
- **AP Provisioning**
  - Describes the communication between AP and Mobility controller
  - Explain the AP booting sequence and requirements
  - Explores the APs controller discovery mechanisms
  - Explains how to secure AP to controller communication using CPsec
  - Describes AP provisioning and operations
- **WLAN Security**
  - Describes the 802.11 discovery, authentication and association
  - Explores the various authentication methods, 802.1x with WPA/WPA2, Mac auth
  - Describes the authentication server communication

<b>Course ID</b>	01125755
<b>Course format, Typical duration</b>	<b>Select one:</b> ILT - Instructor Led, 3 days VILT - Virtual Instructor Led, 3 days
<b>Skill level</b>	Foundational
<b>Delivery languages</b>	English
<b>Lab required</b>	Yes
<b>Related certifications</b>	<ul style="list-style-type: none"> <li>• <a href="#">Aruba Certified Mobility Associate (ACMA)</a></li> </ul>
<b>In preparation for these exams</b>	Selected items from this course are included in these exams: <ul style="list-style-type: none"> <li>• <a href="#">Aruba Certified Mobility Associate Exam</a></li> </ul>
<p><a href="#">Register for this course.</a></p> <p>Find this course in the Training calendar. Click the "Register" link for the course offering that interests you.</p>	

- Explains symmetric vs asymmetric Keys, encryption methods
- WIPS is described along with rogue discovery and protection
- **Firewall Roles and Policies**
  - An introduction into Firewall Roles and policies
  - Explains Aruba's Identity based Firewall
  - Configuration of Policies and Rules including aliases
  - Explains how to assign Roles to users
- **Dynamic RF Management**
  - Explain how ARM calibrates the network selecting channels and power settings
  - Explores the new OS 8.X Airmatch to calibrate the network
  - How Client Match and ClientInsight match steers clients to better APs
- **Guest Access**
  - Introduces Aruba's solutions for Guest Access and the Captive portal process
  - Configuration of secure guest access using the internal Captive portal
  - The configuration of Captive portal using Clearpass and its benefits
  - Creating a guest provisioning account
  - Troubleshooting guest access
- **Network Monitoring and Troubleshooting**
  - Using the MM dashboard to monitor and diagnose client, WLAN and AP issues
  - Traffic analysis using APPrf with filtering capabilities
  - A view of Airwaves capabilities for monitoring and diagnosing client, WLAN and AP issues

## Objectives

After you successfully complete this course, expect to be able to:

- Explain how Aruba's wireless networking solutions meet customers' requirements
- Explain fundamental WLAN technologies, RF concepts, and 802.11 Standards
- Learn to configure the Mobility Master and Mobility Controller to control access to the Employee and Guest WLAN
- Control secure access to the WLAN using Aruba 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 Aruba ARM and Client Match and Client Insight features
- Learn how to perform network monitoring functions and troubleshooting

## How to register

View the [Certification and Learning Global Training Calendar](#) to register for the training offerings that best meets your needs.

## Policies, fees and cancellations

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

## For more information

[Contact our program](#)

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