



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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**Puoi raggiungerci qui**

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# Aruba Mobility Fundamentals

<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
ARU_MOB_FUN	24 Hours (3 days)	Request Price

## 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 (ACMA) V8 certification exam.

## 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 features
- Learn how to perform network monitoring functions and troubleshooting

## Audience

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

## Programme

- 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
  - An introduction to Aruba Products including controller types and modes
  - OS 8.X Architecture and features
  - License types and distribution
- 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

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 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

## Test and Certification

This course is part of the following Certifications:

Aruba Certified Mobility Associate (ACMA)

## Session Dates

Su richiesta. Contattaci al n.ro +39 0471 099134 oppure via mail a [training.ecs.it@arrow.com](mailto:training.ecs.it@arrow.com)

## Informazioni aggiuntive

Questa formazione è disponibile anche come formazione in loco. Per favore, contattaci per saperne di più.