

Training: Aruba Campus Access Fundamentals



TRAINING TERMS

2025-05-12 | 5 days | Virtual Classroom

TRAINING GOALS:

This course teaches you the fundamental knowledge, skills, and practical experience required to configure and manage modern, open standards-based networking solutions using Aruba's wired, wireless, security and management technologies. This course consists of approximately 60% lecture and 40% hands-on lab exercises to help you learn how to implement and validate small-to-medium enterprise network solutions. This 5-day course prepares you for the Aruba Certified Associate - Campus Access exam.

Objectives

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

- Explain Networking Fundamentals
- Install and configure devices running the ArubaOS-CX Network Operating System
- Describe and configure VLANs
- Explain, describe and configure Spanning Tree Protocol
- Understand when to use VRRP and how to configure it
- Explain and configure Link Aggregation
- Understand and configure IP Routing
- Understand and configure OSPFv2 - Single Area
- Describe and configure Switch Stacking using VSF
- Describe Aruba ESP platform and product portfolio
- Perform AP onboarding
- Explain how Aruba's wireless networking solutions meet customers' requirements
- Explain fundamental WLAN technologies, RF concepts, and 802.11 Standards
- 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
- Control secure access to the WLAN using Aruba Firewall Policies and Roles
- Perform network monitoring functions and troubleshooting

Target Audience

The ideal candidate has 1+ years of experience with networking, vendor agnostic understanding of basic network protocols. Under the direction of a Professional or Expert, can apply the configuration and verify the status of a campus network.

CONSPECT:

- Networking Fundamentals
 - Defines networking, LAN, WAN and their components
 - Explains OSI model & encapsulation
 - Discusses different types of physical media
 - Compares unicast, multicast, and broadcast
 - Explains TCP/IP stack
 - Discusses different types of networking devices
- Switching Fundamentals
 - Explains how to connect to and access a switch
 - Describes initial switch setup
 - Describes how to and configure VLANs, tagging, and IP addressing
 - Explains how to use LLDP and ICMP for network discovery and diagnosis
 - Explains how to configure link aggregation to improve performance/resiliency
- Basic IP Setup
 - Discusses Inter-VLAN routing
 - Explains DHCP relay
 - Discusses static IP routing
 - Explains how to configure single-area OSPF
- Network Redundancy
 - Discusses Spanning Tree
 - Explains VRRP and VSX
- VSF
 - Describes VSF
 - Explains how to configure VSF

- Describes Auto-VSF
- Explains VSF MAD
- Introduction to Aruba Solutions
 - Discusses ESP
 - Introduces Aruba switching products
 - Introduces Aruba WLAN portfolio
 - Introduces to Aruba Central
 - Introduces to Aruba ClearPass
- Central for Device Management
 - Explains how to perform device onboarding
 - Describes how to create Central Groups
 - Describes UI config mode
 - Describes template config mode
 - Describes Central licensing
- Device Profiling and AP onboarding
 - Describes the use of device profiling
 - Describes LLDP and MAC profiling
 - Explains how to connect AP to Aruba Central
 - Explains how to perform initial AP setup
- WLAN Fundamentals
 - Describe the fundamentals of 802.11, RF frequencies and channels
 - Explain RF Patterns and coverage including SNR
 - Roaming Standards and QOS requirements
 - Describe aspects of RF design
 - Explains how to configure WLANs
- Implementing Secure WLANs
 - Explain AAA
 - Describe 802.1X authentication
 - Explain how to configure secure WLANs
 - Discuss roles and access rules
- Guest Access
 - Describe guest access
 - Explain how to setup captive portal authentication
 - Describe how to configure guest WLANs
- WLAN Security
 - Describe WLAN security

- Explain certificates
- Describe cloud authentication
- Monitoring and Maintenance
 - Explains the use Aruba Central monitoring capabilities
 - Describe how to identify LED status
 - Explain how to perform firmware upgrades
 - Describe how to enable SNMP on devices
 - Describe AI Insights
 - Describe Alerts & Reports
 - Explain UXI
- Troubleshooting
 - Describe how to perform password recovery and factory reset procedures
 - Explain Central connectivity troubleshooting
 - Describe how to enable spectrum analysis
 - Explore Central Troubleshooting tools

REQUIREMENTS:

It is recommended that candidates have foundational networking experience or attend Aruba's Essentials eLearning series to glean knowledge on Aruba's Campus Access design solution.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Aruba Networks.

This course prepares you additionally to the Aruba Certified Campus Access Associate certification exam

<https://certification-learning.hpe.com/tr/datacard/Certification/ACA-CamAcss>

TRAINER:

Aruba Networks Certified Trainer.