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Sign up

Aruba Campus Access Fundamentals (ACAF) Training

5 days (35 hours)

This course provides you with the fundamental knowledge, skills, and hands-on experience needed to configure and manage open-standard-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 network solutions for small and medium-sized businesses.

Become an expert in modern network infrastructures with this comprehensive program, designed to take you from networking fundamentals to advanced mastery of Aruba solutions. This unique training combines a solid theoretical foundation (OSI model, TCP/IP) with practical expertise in switch deployment, network redundancy (VSF, VSX), and cloud management via Aruba Central.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Explain the fundamentals of networking
- Install and configure devices using the ArubaOS-CX operating system
- Describe and configure VLANs
- Explain, describe, and configure the 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 the ESP platform and the Aruba product portfolio
- Perform AP integration
- Explain how Aruba wireless network solutions meet customer needs
- Explain fundamental WLAN technologies, RF concepts, and 802.11 standards

- Identify and explain radio frequency bands and channels, as well as the standards used to regulate them
- Describe the concepts of radio frequency coverage and interference, as well as the and diagnostics of WLAN systems
- Identify and differentiate between 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 essential in wireless network design
- Control secure access to the WLAN using Aruba firewall policies and roles
- Perform network monitoring and troubleshooting tasks

Target Audience

- Anyone with more than one year of networking experience and an understanding of basic networking protocols.

Prerequisites

- Candidates are recommended to have basic networking experience or knowledge of the Aruba Campus Access solution.

Aruba Data Center Networks Implementation (IDCN) Training Program

[Day 1 - Morning]

Networking Fundamentals

- Definition of networking, LAN, WAN, and their components
- Explanation of the OSI model and encapsulation
- Discussion of different types of physical media
- Comparison of unicast, multicast, and broadcast
- Explanation of the TCP/IP stack
- Discussion of different types of network devices

[Day 1 - Afternoon]

Switching Fundamentals

- Explanation of how to connect to and access a switch
- Description of the initial configuration of a switch
- Explanation of how to configure VLANs, tagging, and IP addressing
- Explanation of how to use LLDP and ICMP for network discovery and diagnostics

- Explanation of how to configure link aggregation to improve performance/resilience

Basic IP Setup

- Explanation of Inter-VLAN Routing
- Explanation of DHCP relay
- Explanation of static IP routing
- Explanation of how to configure single-area OSPF

[Day 2 - Morning]

Network Redundancy

- Explanation of Spanning Tree
- Explanation of VRRP and VSX

[Day 2 - Afternoon]

VSF

- Description of VSF
- Explanation of how to configure VSF
- Description of the Auto-VSF feature
- Description of VSF MAD

Introduction to Aruba Solutions

- ESP Overview
- Overview of Aruba Switching Products
- Overview of the Aruba WLAN Portfolio
- Overview of Aruba Central
- Overview of Aruba ClearPass

[Day 3 - Morning]

Central for Device Management

- Description of how to integrate devices
- Explanation of how to create Central Groups
- Description of how to configure the user interface
- Description of how to configure templates
- Description of Central Licenses

[Day 3 - Afternoon]

Device Profiling and AP Onboarding

- Description of how to use device profiling
- Description of LLDP and MAC Profiling
- Explanation of how to connect an access point to Aruba Central.
- Explanation of how to perform the initial configuration of access points

WLAN Fundamentals

- Description of the fundamentals of the 802.11 standard, RF frequencies, and channels
- Explanation of RF models and coverage, including SNR
- Roaming standards and QoS requirements
- Description of RF design considerations
- Explanation of how to configure WLANs

[Day 4 - Morning]

Implementing Secure WLANs

- Explanation of AAA
- Description of 802.1X authentication
- Explanation of how to configure secure WLANs
- Description of roles and access rules

[Day 4 - Afternoon]

Guest Access

- Description of guest access
- Explanation of how to configure captive portal authentication
- Describe how to configure guest WLANs

WLAN Security

- Describe WLAN security
- Explanation of certificates
- Describe cloud-based authentication

[Day 5 - Morning]

Monitoring and Maintenance

- Explanation of how to use Aruba Central monitoring features
- Explanation of how to identify LED status
- Explanation of how to perform firmware updates
- Explanation of how to enable SNMP on devices
- Describe IA Insights
- Describe alerts and reports
- Explanation of UXI

[Day 5 - Afternoon]

Troubleshooting

- Describe how to perform password recovery and factory reset procedures
- Explanation of central connectivity troubleshooting
- Describe how to enable spectrum analysis
- Explore the central office troubleshooting tools

Target Audience

This training is intended for both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

Assessment upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training program.