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Aruba Campus Access Implementation (IACA) Training

5 days (35 hours)

This training is designed to provide IT professionals with the comprehensive skills and knowledge needed to deploy and manage secure, high-performance campus networks using HPE Aruba Networking solutions.

Through a structured series of modules, participants will explore key topics such as campus network architecture, wired and wireless redundancy, advanced routing protocols and Layer 3 services, enterprise WLAN security, guest access management, VXLAN, and group-based policies, as well as network optimization and automation.

Each module combines fundamental theory with hands-on configuration and troubleshooting exercises to ensure a practical learning experience.

Objectives

- Analyze business and technical requirements.
- Design simple network solutions based on HPE Aruba Networking products.
- Implement secure and scalable network infrastructures.
- Document their work to ensure long-term operational success.

Target Audience

- Network engineers
- Administrators or consultants who wish to demonstrate and develop their skills in campus network environments and take on expanded responsibilities.

Prerequisites

- Candidates are recommended to have solid networking experience or to complete the Aruba Campus Access Fundamentals (ACAF) course

Course Outline for the Aruba Campus Access Implementation (IACA) Training

[Day 1 - Morning]

Introduction to HPE Aruba Networking Solutions

- HPE Aruba Networking Campus Architecture
- Topologies and Encapsulation
- Automation

[Day 1 - Afternoon]

Wired Redundancy

- VSX Overview and Components
- VSX Synchronization
- Traffic Transfer
- Loop Avoidance

[Day 2 - Morning]

Campus Routing

- Review of Single-Zone OSPF
- Multizone OSPF
- External Route Redistribution
- Zone Types
- Promoting Rapid Convergence
- Introduction to BGP

[Day 2 - Afternoon] L3

Services

- DHCP Snooping
- Dynamic ARP Inspection (Dynamic ARP Inspection)

Multicast

- IGMP
- Introduction to PIM
- PIM-DM

[Day 3 - Morning]

Wireless Infrastructure with Gateways

- Usage and Functions of Mobility Gateways
- AOS-10 Gateway Clusters
- Gateway Deployment Options
- Cluster Configuration
- Cluster Monitoring
- Secondary Gateway

[Day 3 - Afternoon]

Tunnel Mode WLAN Architecture

- Tunnel Transfer Mode
- Configuring an SSID in tunnel mode
- Monitoring a Tunnel Mode Deployment

[Day 4 - Morning]

Secure Enterprise Networks

- Introduction to Authentication
- 802.1X Authentication in AOS-10
- Firewall Roles and Policies
- Aliases
- Dynamic Authorization in AOS-10

[Day 4 - Afternoon]

Guest Access

- Introduction to Guest Access
- Guest Authentication Process
- Configuring Guest Authentication Using Central NAC
- MAC Authentication

Hybrid Mode Architecture

- HPE Aruba Networking WLAN in Mixed Mode
- Configuring Mixed Mode

[Day 5 - Morning]

Deploying Gateway Clusters

- Wired Port Access
- Wired Authentication

[Day 5 - Afternoon]

VXLAN and GBP

- Security and Availability Features
- RF Optimization
 - Channel Availability
 - RF Interference and Duty Cycle
 - AirMatch and Broadcast Optimization
 - ClientMatch
 - AirGroup
 - Managing the Visibility and Sharing of Personal Devices
- Traffic Optimization and Quality of Service (QoS)
- Professional Network Design and Implementation

Target Companies

This training is intended for both individuals and companies—large and small—that wish to train their teams in new, advanced IT technologies or to acquire specific industry knowledge or modern methodologies.

Assessment at the Start of Training

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

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

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

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

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