

Updated on 07/31/2026

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# Advanced Campus Access for Switching (AACAS) Training

5 days (35 hours)

This course covers the highest level of expertise in HPE Aruba Networking wired and wireless solutions, including the ability to deploy and optimize HPE Aruba Networking campus access solutions for enterprises.

Completing this course will enable you to analyze complex network architectures and customer needs in order to deploy, monitor, troubleshoot, and optimize multi-vendor network solutions. The course focuses on switching (80%) and mobility (20%), with approximately 30% theory and 70% hands-on, scenario-based lab exercises.

Course participants are encouraged to use critical thinking to solve complex problems in the environment that go beyond the scope of expertise of a professional-level integrator. While performing their primary tasks, candidates will also need to demonstrate a high level of strategic thinking and problem-solving skills.

This training prepares participants for the written and practical exams for the “Aruba Certified Campus Access Switching Expert” certification

## Objectives

- Describe and implement best-practice troubleshooting principles for a given scenario
- Use a proven problem-solving methodology
- Describe the troubleshooting tools REST API, NAE, IP SLA, SNMPv3, and NetEdit
- Configure, validate, and troubleshoot network virtualization features
- Configure and validate PBR
- Deploy and troubleshoot multi-zone OSPF
- Deploy and troubleshoot BGP
- Deploy and troubleshoot route redistribution
- Deploy and troubleshoot VRFs and route leaks
- Deploy and troubleshoot multicast

- Deploying and Troubleshooting Quality of Service (QoS)
- Deploying and Troubleshooting Dynamic Segmentation
- Deploying and Troubleshooting Network Security
- Deploy and troubleshoot IPv6
- Perform limited deployments and troubleshoot Aruba enterprise campus wireless access networks, remote access, and multi-tenant environments.
- Configure and validate secure Aruba WLAN solutions for employees and guests.
- Implement advanced services and security solutions.
- Manage and monitor the wireless components of Aruba campus access solutions.
- Perform certain advanced troubleshooting tasks.

## Target Audience

- Typical candidates for this training have at least 5 years of experience in complex networking and are highly proficient in configuration and troubleshooting. They are thoroughly familiar with HPE Aruba Networking wired and wireless solutions and are specifically capable of deploying and optimizing HPE Aruba Networking campus access solutions for enterprises.

## Prerequisites

- It is recommended that you have completed the “Implementing Aruba Campus Access” (IACA) course or have passed the “Aruba Certified Professional – Campus Access” (ACP – Campus Access) certification exam.

## Aruba Data Center Networks Implementation (IDCN) Training Agenda

### [Day 1 - Morning] Introduction

#### to Troubleshooting

- Troubleshooting Methods
- Debugging Commands
- Packet capture
- IP SLA
- NAE

### [Day 1 - Afternoon]

#### VSX and Layer 2 Technologies

- VSX

- MC-LAG
- VSX-MAD
- Advanced VSX Features
- VSX Troubleshooting

[Day 2 - Morning]

## Layer 3 Routing - OSPF

- Static Routing
- Single-Zone OSPF
- Multi-zone OSPF
- Advanced OSPF Features
- OSPF Troubleshooting

[Day 2 - Afternoon] BGP

- BGP Concepts
- BGP Advertisements
- BGP Metrics and Configuration
- Route Monitoring
- BGP Troubleshooting

[Day 3 -

Morning] IP

## Multicast

- IGMP
- PIM-SM
- PIM-DM (theory only)
- Troubleshooting

## QoS

- Traffic Classification
- Tagging
- Traffic Scheduling
- Re-tagging

[Day 3 - Afternoon] Gateway

## Deployment

- ZTP
- OTP
- Manual Activation
- Transfer Modes
- Mixed via tunnel
- Local VLANs
- VLAN Decision Rules for Local Forwarding

[Day 4 - Morning]

## Wired and Wireless Access Control

- Revision of the 802.1X Standard
- Describe the configuration options for wired user roles
- MAC Authentication
- Dot1x Authentication
- Simultaneous Authentication / Priority
- Special Roles
- Special Cases
- Troubleshooting

[Day 4 - Afternoon] UBT

- Wired authentication with the gateway
- Wired zones (gws)
- UBT 1.0 / 2.0 Modes

[Day 5 - Morning]

## Security

- Authentication caching / resilience
- Securing and Hardening Network Devices
- Administrator Authentication

[Day 5 - Afternoon]

## Creating a VXLAN Tunnel and Using the GBP Protocol

- Introduction
- Static VXLAN (without EVPN)

- Principles of the GBP Protocol
- Configuring Aruba Roles with the GBP Protocol
- Integration with the Aruba Gateway
- Orchestration with NetConductor

## Mini-simulation and incident tickets

## Target Audience

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

## Pre-training Assessment

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 level across 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.