Implementing Campus Access (IACA)

ID IACA **Price** 4,950.— €(excl. VAT) **Duration** 5 days

Who should attend

Ideal candidates for this course have a knowledge of HPE Aruba Networking campus LAN and WLAN portfolios. This includes basic Layer 2 (L2) and Layer 3 (L3) experience in networking and entry-level troubleshooting principles. Candidates should have at least six months of hands-on experience or equivalent knowledge configuring HPE Aruba Neworking switches and APs in an enterprise environment and on-the-job training with exposure to network protocols. This course is ideal for network engineers, administrators, or consultants aiming to demonstrate and expand their skills in campus network environments and take on expanded responsibilities.

This course is part of the following Certifications

HPE Aruba Networking Certified Professional – Data Center (ANCPDC)
HPE Aruba Networking Certified Professional - Campus Access (ACP-CA)

Prerequisites

It is recommended that candidates have proficient networking experience or attend Campus Access Fundamentals (ACAF)

Course Objectives

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

- Assess, design, and implement various LAN topologies available for campus networks.
- Configure resilient and secure wired networks.
- Design wireless networks providing high-performance network access, dynamic security, and reliability.
- Configure guest access for wired and wireless networks.
- Deploy, monitor, and troubleshoot networks using HPE Aruba Networking Central and APIs.
- Manage and optimize networks by employing HPE Aruba Networking services.
- Develop professional network design, implementation, and documentation strategies aligned with business requirements.

Course Content

Introduction to HPE Aruba Networking solutions

- HPE Aruba Networking campus architecture
- Topologies and encapsulation
- Automation

Wired redundancy

- VSX overview and components
- VSX synchronization
- Traffic forwarding
- Loop avoidance

Campus routing

- Single-area OSPF review
- Multi-area OSPF
- Redistributing external routes
- Area types
- Promoting fast convergence
- BGP overview

L3 services

- DHCP snooping
- Dynamic ARP inspection

Multicast

- IGMP
- PIM introduction
- PIM-DM

Wireless infrastructure with gateways

- Mobility gateway use and functions
- AOS-10 gateway clusters
- Gateway deployment options
- Cluster configuration
- Cluster monitoring
- Secondary gateway

Tunneled WLAN architecture

- Tunnel forwarding mode
- Configuring tunnel mode SSID
- Monitoring tunnel mode implementation

Secure enterprise networks

- Introduction to authentication
- 802.1X authentication in AOS-10
- Firewall roles and policies
- Alias
- Dynamic authorization in AOS-10

Guest access

- Introduction to guest access
- Guest authentication process
- Configuring guest authentication using Central NAC
- MAC authentication

Mixed mode architecture

- HPE Aruba Networking mixed mode WLAN
- Mixed mode configuration

Gateway cluster deployment

Wired port access

- Wired authentication

VXLAN and GBP

Security and availability features

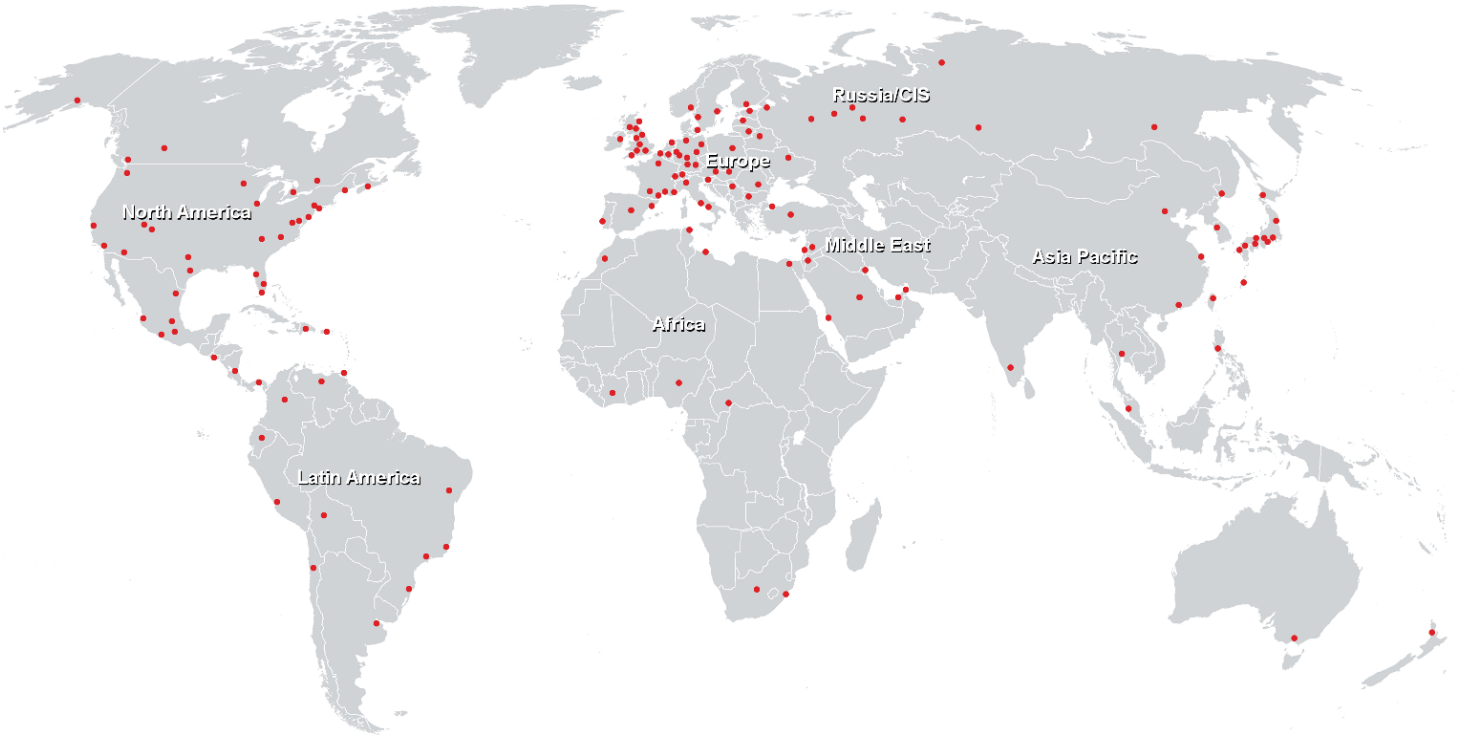
RF optimization

- Channel availability
- RF interference and duty cycle
- AirMatch and broadcast optimization
- ClientMatch
- AirGroup
- Managing personal device visibility and sharing

Traffic optimization and QoS

Professional network design and implementation

Training Centres worldwide





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