



Campus Access Fundamentals, Rev. 26.31

Course Description

This course builds the foundational knowledge, skills, and hands-on experience needed to configure and manage modern, open standards-based network solutions using HPE Aruba Networking wired, wireless, security, and management technologies. Topics include redundancy and resiliency features such as Multiple Spanning Tree Protocol (MSTP), loop protection, link aggregation (including LACP), and switch virtualization with HPE's Virtual Switching Framework (VSF).

The course is delivered as approximately 60% lecture and 40% hands-on labs focused on implementing and validating small-to-medium enterprise network solutions. This five-day course prepares you for the HPE Aruba Networking Certified Associate - Campus Access exam

Course Duration:

5 days

Prerequisites:

Introduction to HPE Aruba Networking Solutions Campus Access Design Essentials HPE Aruba Networking Campus Access Essentials

Objectives:

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

- Describe the architecture, components, and core features of HPE Aruba Networking campus access solutions, and explain how
- HPE GreenLake and HPE Aruba Networking Central fit into the overall offering.
- Configure and manage HPE Aruba Networking devices and services using CLI, GUI, and HPE Aruba Networking Central.
- Diagnose connectivity, performance, and authentication issues to leverage appropriate resources.
- Produce and validate low-level designs and implementation readiness artifacts from high-level designs and site surveys.

Course Outline:

Introduction to HPE Aruba Networking Central

- Onboard devices in HPE GreenLake
- Navigation
- Hierarchy

Device functions

- Device management
- API, CLI, and GUI configuration methods

- Elements of device configuration
- Configuration profiles
- System configuration of a device

Switch connectivity fundamentals

- LANS and VLANs
- Creating VLAN profiles
- Switch port configuration

Loop prevention

- Loop prevention mechanisms
- Configuring loop prevention mechanisms
- LAG concepts and prerequisites
- LAG configuration

Switch high availability

- Introduction to VSF
- VSF configuration and management
- VSF monitoring and troubleshooting
- Introduction to VSX
- Deployment scenarios

Layer 3 services

- Layer 3 routing
- Layer 3 services

Routing fundamentals

- Introduction to routing
- Static routes
- Routing protocols
- OSPF

AOS-10 architecture and bridged WLAN

- AOS-10 architecture
- Bridge mode WLAN
- AP uplink profile
- Monitoring bridged clients

User roles

- User roles overview
- Rules and policy application
- Access and application roles
- Aliases

Network security

- Introduction to AAA
- 802.1X authentication
- Roles and rules
- Captive portal
- Deployment overview

User Experience Insight

- UXI overview
- UXI dashboard
- UXI integration with HPE Aruba Networking Central

Floor Plan Manager and topology

- Floor Plan Manager
- Floor plan dashboard
- Topology

Monitoring

- Monitoring with HPE Aruba Networking Central
- LED status
- Simple Network Management Protocol

Troubleshooting using HPE Aruba Networking Central

- Troubleshooting methodology
- Tools and resources
- Audi Trail for troubleshooting
- AI Insights recommendation
- Alerts

Administration

- Identity and access control
- User audit logs
- Certificate management
- Manage reports

Network design

- Gathering information
- RF planning
- Wired considerations

Who Should Attend

Ideal candidates for this course are people who need practical entry-level skills to design, configure, operate, or support modern campus LANs built with HPE Aruba Networking wired, wireless, security, and management products.

Typical roles include: junior engineer, level 1 support, network operations engineer, and network technician.