

Implementing Campus Access, Rev. 26.31

Course description

This course 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, and network optimization and automation. Each module combines foundational theory with practical configuration and troubleshooting exercises, ensuring a hands-on learning experience.

By the end of the course, learners will be able to:

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

The curriculum emphasizes current industry best practices and prepares participants to confidently address the challenges of modern campus networks.

Course ID	0001215479
Course format, Typical duration	Select one: VILT - Virtual Instructor Led, 5 days ILT - Instructor Led, 5 days
Skill level	Intermediate (INT)
Delivery languages	English
Lab required	Yes
Related certifications	• HPE Aruba Networking certified associate - Campus access • HPE Aruba Networking certified professional - Campus access
In preparation for these exams	Selected items from this course are included in these exams: • HPE Network Campus Access Professional Exam
Register for this course. Find this course offering in the Training calendar. Click "Register" to take the course in The Learning Center. Login and Password required.	

Ideal candidate for this course

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 Networking 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.

Suggested prerequisites

- Campus Access Fundamentals

Topics

- **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**

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.

How to register

Click on this link to register for this course: <https://certification-learning.hpe.com/tr/TrainingCalendar?excludePartners=false&CourseId=0001215479>

Policies, fees and cancellations

Course fees may vary. Fees are established and collected by the training center that delivers the course. Cancellation fees may apply. Contact your HPE Authorized Training Partner for their respective policies.

For more information

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