

# AOS-10 Implementation and Configuration, Rev. 25.31

## Course description

In this course, you will learn and implement techniques to configure and manage a network successfully using AOS-10 devices. You will examine the details of RF design, deployment, cluster and mesh architectures, Microbranch, discuss security features, and describe troubleshooting methods available for AOS-10.

## Ideal candidate for this course

Ideal candidates are networking IT professionals or technical marketing professionals looking to expand their knowledge and skill set on AOS-10. These individuals are responsible for:

- Designing and implementing network solutions
- Managing and troubleshooting network operations
- Optimizing network performance
- Integrating new technologies
- Ensuring network security

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Course ID</b>                                                                                                                                                                          | 0001212541                                                                                                                     |
| <b>Course format, Typical duration</b>                                                                                                                                                    | <b>Select one:</b> VLT - Virtual Instructor Led, 5 days<br>ILT - Instructor Led, 5 days<br>WBT - Web Based, Self Paced, 5 days |
| <b>Skill level</b>                                                                                                                                                                        | Intermediate (INT)                                                                                                             |
| <b>Delivery languages</b>                                                                                                                                                                 | English                                                                                                                        |
| <b>Lab required</b>                                                                                                                                                                       | Yes                                                                                                                            |
| <a href="#">Register for this course.</a><br>Find this course offering in the Training calendar. Click "Register" to take the course in The Learning Center. Login and Password required. |                                                                                                                                |

## Suggested prerequisites

Introduction to AOS-10

Introduction to HPE Aruba Networking Solutions

## Topics

- **AOS-10 fundamentals**
  - AOS-10 architecture
  - HPE Aruba Networking Central
  - WLAN configuration with AOS-10 APs
  - Deployment with gateways
- **Advanced RF design**
  - Advanced Wi-Fi standards
  - Wi-Fi standard comparison
  - AirPass
  - Air Slice
- **Uplink management and migration**
  - Configuring uplinks
  - Uplink types
  - Ethernet uplinks
  - Configuring PPPoE profile
  - APIx configuration
  - Cellular uplink using a HPE Aruba Networking USB LTE modem
  - Configuring cellular uplink
  - Wi-Fi uplinks
  - Uplink management
  - Configuring uplink management
  - Migrating APs from AOS-8 to AOS-10
  - Migrating campus APs to AOS-10

- **Advanced wireless security**
  - Authentication overview
  - 802.1X authentication
  - User roles and role derivation
  - Dynamic authorization in AOS-10
  - HPE Aruba Networking Central Cloud Authentication and Policy
- **Guest access**
  - Guest access solution
  - Creating a guest network
  - MAC authentication
- **Gateway cluster deployment**
  - Gateway cluster architecture
  - Gateway cluster configuration options
  - Gateway cluster configuration
  - Tunnel orchestration
  - Cluster monitoring and troubleshooting
- **HPE Aruba Networking EdgeConnect Microbranch**
  - EdgeConnect Microbranch deployment
  - Microbranch configuration
  - System properties configuration
  - WAN properties configuration
  - LAN properties configuration
  - WLAN properties configuration
  - Tunnels and routing
- **Advanced Microbranch**
  - VPNCs
  - Policy Based Routing
  - Next hop list
  - Configuring services
  - Configuring security
- **Enterprise mesh**
  - AOS-10 enterprise mesh solution
  - Applications of mesh network
  - Mesh network components
  - Configuring a mesh network
  - Mesh deployment architecture
  - Additional features of mesh networks
- **Internet of Things integration**
  - Architecture
  - Key components
  - IoT data connector
  - Configuring APs
- **Dynamic Segmentation**
  - User Based Tunneling (UBT)
  - Deployment
  - How UBT works
  - Monitoring
- **Voice optimization and UCC**
  - QoS
  - Unified communication and collaboration
- **RF optimization**

- RF network challenges
  - AirMatch
  - ClientMatch
  - AirGroup
  - Managing personal device visibility and sharing
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- **Admin access and operations**
    - Network device access control
    - TACACS+ configuration on HPE Aruba Networking Central
    - Configuring TACACS+ on gateway using CLI
    - Device firmware management
    - Managing logs
    - Packet analysis
    - Managing alerts
    - Managing reports

## Objectives

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

- Recall the fundamental concepts of AOS-10.
- Implement RF design and network deployment features.
- Configure the uplink and manage the migration.
- Secure wireless networks using features such as WPA-3, MPSK, and RADSec.
- Design access for guest users including authentication and custom login pages.
- Configure, deploy, and manage gateway clusters and Microbranch architectures.
- Set up an enterprise mesh network.
- Configure networks to integrate IoT applications.
- Apply User Based Tunneling (UBT) on devices.
- Enable Unified Communications, Air Slice, and AirGroup services.
- Understand admin access control and operations.

## How to register

Click on this link to register for this course: <https://certification-learning.hpe.com/tr/TrainingCalendar?excludePartners=false&CourseId=0001212541>

## For more information

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