

# Advanced Campus Access for Mobility, Rev. 23.41

**Duration: 5 Days**

## Course Description:

This 5-day advanced level course teaches you the HPE Aruba Networking campus access technologies, focusing on the mobility (80%) and the switching (20%) aspects of the network. You will learn how to:

- Strategize the implementation and configuration of HPE Aruba Networking campus access to get most of the solutions.
- Use their troubleshooting methodologies successfully.
- Take complex scenarios and break them down into manageable blocks to provide the customer with the best possible outcomes.

## Target Audience:

Typical candidates for this course have 5+ years of experience with complex networks, mastery of configuration, and troubleshooting. They are very familiar with HPE Aruba Networking wired and wireless solutions, including the ability to implement and optimize enterprise level HPE Aruba Networking campus access solutions.

## Prerequisites:

The suggested prerequisite for this course is to attend the Implementing Campus Access, Rev. 23.11 training under Course ID: 0001199936 and/or pass the HPE Network Campus Access Professional Exam under Exam ID: HPE7-A01 acquiring HPE Aruba Networking Certified Professional - Campus Access certification.

## Course Objectives:

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

- Describe and execute best practice troubleshooting principles for a give scenario.
- Use a proven problem-solving methodology.
- Describe REST API, NAE, IP SLA, SNMPv3 and NetEdit troubleshooting tools
- Configure, validate and troubleshoot Network Virtualization features
- Configure and validate multi-cluster deployments
- Configure and validate Corporate, IoT and Guest SSIDs
- Deploy and troubleshoot Mobility services in a large enterprise network
- Perform limited implementations and troubleshoot enterprise HPE Aruba Networking campus access switching networks, remote-access, and multi-tenant environment.
- Configure and validate HPE Aruba Networking WLAN secure employee and guest solutions.

- Implement advanced services and security solutions.
- Manage and monitor HPE Aruba Networking wireless pieces of the campus access solution.
- Perform some advanced troubleshooting.

## Course Outlines:

### Troubleshooting

- Diagnostic principles
- Troubleshooting zone
- Logs
- Packet analysis

### Wired Campus Network

- Best practices and recommendations
- Functional underlay network
- Central options to configure the wired network

### Wireless Campus Network

- HPE Aruba Networking Gateway cluster
- Corporate SSID
- IoT SSID
- Guest SSID

### Wired Authentication

- AOS-CX user-roles
- Port authentication
- HPE Aruba Networking AP authentication
- User-Role flow and assignation
- High availability
- Troubleshooting
- Cloud authentication

### Overlay Network

- Centralized Tunnels – UBT
- Distributed Tunnels – VXLAN
- Distributed Campus-wide fabric
- Securing the Overlay network
- Troubleshooting

### Network Optimization

- Implementing QoS on a campus network
- User Experience – UXI
- Other techniques to apply

### Reporting Information and Network Management

- Management access using TACACS+
- Online reports
- VisualRF AP coverage
- Central API interface
- Postman as API software
- Webhooks

### Trouble tickets

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