

HPE Aruba Networking Certified Professional - Switching (HPE7-A08)

This intermediate HPE Aruba training helps network engineers and infrastructure analysts get hands-on with enterprise switching. You'll learn how to plan, configure, and troubleshoot wired network solutions using Aruba Central and CLI. Build skills in VLAN setup, Layer 2 and Layer 3 configuration, routing protocols, QoS, and switch security. Prepare for the HPE Network Switching Professional certification and manage Aruba networks across multiple sites with confidence.

[CBT Nuggets course material](#) →

WEEK 1

Understand Aruba Switching

The Switching Portfolio
Legacy vs Modern Networks
REST APIs
Dynamic Segmentation
Validation

Understand Private VLANs

VLAN Overview
What are Private VLANs
Private VLAN Components
Basic Configuration
Extending the Primary VLAN
Extending the Secondary VLAN
Validation

Configure STP

What is Spanning Tree Protocol?
Understanding Bridge IDs and Elections
Changing the Root Bridge
STP Ports
Admin-Edge Ports and BPDUGuard
Validation

Optimize Layer 2 Topologies

Multiple Spanning Tree
Root Guard
Loop Guard

UDLD
Validation

WEEK 2

Configure OSPF

Routing and OSPF
Topology Setup
Configuring OSPF
Breaking Neighbor Relationships
Validation

Manage OSPF Networks

Multi-Access Network Segments
Configuring DRs and BDRs
Point to Point Configurations
Configuring Passive Interfaces
Validation

Understand Multi-Area OSPF

Multi-Area OSPF
Configuring the Topology
Understanding the LSAs
Validation

Configure Stub Areas

Topology Layout

WEEK 3

Stub Areas
Totally Stubby Areas
Not So Stubby Areas
Totally Not So Stubby Areas
Validation

Understand Filtering & Summarisation

Topology Overview
Inter-Area Summarisation
External Summarisation
Inter-Area Filtering
External Filtering
Filtering Locally On A Router
Validation

Manage OSPF Path Selection

Cost and Reference Bandwidth
Virtual Links
How OSPF Prevents Loops
Exiting the Boundary
Validation

Understand BGP

BGP Overview
Setting Up The Topology
Configuring BGP

WEEK 4

BGP Attributes

Validation

Understand iBGP

Comparing iBGP and eBGP

Addressing Common Problems

Next Hop Self & Redistribution

Peering Over Loopbacks

Validation

Configure Weight and Local Preference

Topology Overview

iBGP Configuration & Determining the Best Path

Changing the Local Preference

Changing the Weight

Validation

Understand AS-Path and Origin

Understanding the Topology

AS Path Prepending

Targeting Prefixes and Local Preference

Origin Codes

Validation

Configure MED and Peer Groups

Lab Topology Configuration

Multi-Exit Discriminator

Always Compare MED

eBGP Multihop

Peer Groups, Timers & Authentication

Validation

Configure Route Reflectors

Defining The Problem

Understanding Route Reflection

Route Reflector Configuration

Clusters

Validation

Understand Confederations

What Are Confederations

Confederation Configuration

Testing the Configuration

Confederations vs Route Reflectors

Validation

Understand BGP Communities

What Are Communities?

Building the Topology

Configuring Communities

Well-Known Communities

Validation

Understand BGP Aggregation & Admin Distance

Defining the Problem

Configuring the Network

Creating the Null Route

WEEK 5

Understanding BGP Administrative Distance

Validation

BGP Design and Filtering

Design Considerations

Solving the Problem

Filtering Prefixes

Validation

Understand Virtual Routing & Forwarding

What are VRFs?

VRF Configuration

VRFs Across Multiple Switches

Validation

Understand Multicast

Multicast Flooding and RPF

Multicast Addressing

Multicast State and PIM Dense Mode

PIM Sparse Mode

Multicast Configuration

Validation

Understand ACLs

What are Access Control Lists?

Configuring Access Control Lists

Outbound ACLs

Object Groups

Validation

Understand Virtual Switching

Virtual Switching Technologies

Configuring VSX

Active-Active Gateways

Testing the Configurations

Validation

Understand 802.1X

AAA Basics

WEEK 6

Understanding 802.1X

Taking a Closer Look at EAP

RADIUS Configuration

Exploring Additional Commands

Validation

Secure Network Access

DHCP Snooping

DHCP Configuration

DHCP Snooping Configuration

Dynamic ARP Inspection

Validation

Understand the Aruba REST API

Understanding REST APIs

How REST APIs Operate

Exploring the Aruba REST API

Using Python

Validation

Understand QoS and PBR

Quality of Service Basics

How Quality of Service Works

Virtual Output Queuing

Policy Based Routing

Validation

Understand Aruba NAE

What is NAE?

WEEK 7

Exploring the GUI

Monitoring OSPF

Using the REST API

Other Types of Monitoring

Validation

Implement Network Troubleshooting

Troubleshooting Basics

The Troubleshooting Process

Troubleshooting VLAN Issues

Troubleshooting Layer 3 Issues

Validation