

Using AI in HPE Aruba Networking, Rev. 25.21

H46GSS

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Overview

This course provides network professionals with the knowledge and hands-on experience needed to leverage AI-driven solutions in HPE Aruba Networking environments. You learn how to apply conversational AI and prompt engineering techniques to streamline network configuration, deployment, and troubleshooting.

Through a series of hands-on lab exercises, you explore AI-enhanced methods for managing HPE Aruba AOS-CX switches and Campus Access Networks. The course emphasizes real-world applications of AI to optimize network efficiency, automate troubleshooting, and improve operational workflows.

Course ID	H46GSS
Duration	2 days
Format	ILT/VILT
Schedule, pricing & registration	
Browse related courses	

Audience

This course is ideal for candidates having a strong understanding of HPE Aruba Networking technologies and products. They should have a professional level knowledge of HPE Aruba Networking AOS-CX switching.

Prerequisites

Before attending this class, we recommend that you have experience implementing AOS-CX switching.

Objectives

After completing this course, you should be able to:

- Understand and utilize conversational AI to enhance network operations
 - Apply prompt engineering techniques to optimize AI responses for network-related tasks
 - Configure and troubleshoot network protocols using AI-assisted methodologies
 - Use AI tools for HPE Aruba Networking network automation and scripting
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Course outline

Introduction to AI-Assisted Networking with ChatGPT	■ Comparing AI machine learning (ML) versus deep learning (DL) ■ Understanding neural networks in deep learning algorithms ■ Understanding algorithm training and optimization ■ Comparing validation and overfitting ■ Examining AI products and implementations in the industry
Configuring VSX, VSF, L2, and Port Access with AI	■ VSX technology overview ■ VSF stacking overview ■ MSTP and loop protection ■ DHCP snooping and ARP inspection ■ Wired Access Control
Implementing L3 Routing Protocols and Technologies with AI	■ OSPF overview ■ BGP overview ■ VRF and IVRL overview ■ VNBT in EVPN-VXLAN fabric
Using AI for Network Automation and Scripting	■ Explain APIs and work with REST API ■ Describe and use API Tools ■ Introduction to Python automation with AOS-CX and Central APIs ■ Using ChatGPT to generate and troubleshoot automation scripts ■ Python and ChatGPT for network configuration management ■ OpenAI API Platform overview ■ Describe HPE Aruba Networking, AOS-CX and OpenAI SDKs ■ HPE Aruba Networking Central AI
Real-world Troubleshooting and Case Studies with AI	■ Use show commands, diagnostic tools, debug and packet capture for troubleshooting ■ ChatGPT-assisted interpretation of network logs and errors ■ Common troubleshooting scenarios with AI-assisted solutions ■ Diagnosing VSX, VSF and L2 issues with ChatGPT ■ Routing misconfiguration and convergence troubleshooting ■ Debugging OSPF and BGP issues using AI-assisted insights ■ Case studies of network issues and AI-driven resolutions

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