Aruba Certified Edge Professional Exam

Exam description

This is the Aruba Certified Edge Professional Exam. This exam will allow you to select three sections from the list: Design Professional, Mobility Professional, Switching Professional, ClearPass Professional, or Security Professional. Each of the three sections must be passed. You will need to score 70% in each of the 3 sections in order to pass the entire exam. These exams have been specifically designed to support this passing score.

Ideal candidate for this exam

The ideal candidate is a professional in Design, Mobility, Switching, ClearPass and Security.

Exam contents

This exam has 60 questions. Here are types of questions to expect:
- Multiple choice (multiple responses)
- Multiple choice (single response)

Advice to help you take this exam

- Complete the training and review all course materials and documents before you take the exam.
- Exam items are based on expected knowledge acquired from job experience, an expected level of industry standard knowledge, or other prerequisites (events, supplemental materials, etc.).
- Successful completion of the course or study materials alone, does not ensure you will pass the exam.

Objectives

Candidates must select and pass three sections. Each section must be passed independently to pass the exam. Twenty items will deliver for each chosen section. You will need to score 70% in each of the selected sections in order to pass the entire exam. The passing score may differ from the new candidate exam. The questions are specifically selected to support a 70% passing score.

Exam ID	HPE6-A75
Exam type	Proctored
Exam duration	1 hour 30 minutes
Delivery languages	English

Register for this Exam
You need an HPE Learner ID and a Pearson VUE login and password.

No reference material is allowed at the testing site. This exam may contain beta test items for experimental purposes.

During the exam, you can make comments about the exam items. We welcome these comments as part of our continuous improvement process.

Percentage of Exam	Passing Score	Number of Questions	Sections/Objectives

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33%	70%	20	**Design**
			
			10% Gather and analyze data, and document customer requirements for a single-site campus environment with less than 1000 employees or subsystems of an enterprise-wide network.
			  • Given an outline of a customer's needs, determine the information required to create a solution.
			
			18% Evaluate the requirements for a single-site campus environment with less than 1000 employees or subsystems of an enterprise-wide network, and select the wired and wireless networking technologies for the design.
			  • Given a scenario, evaluate the customer requirements to identify gaps per a gap analysis, and select components based on the analysis results.
			  • Given a scenario, translate the business needs of the environment into technical customer requirements.
			
			31% Plan and design an Aruba solution per the customer requirements for a single-site campus environment with less than 1000 employees or subsystems of an enterprise-wide network.
			  • Given a scenario, select the appropriate products based on the customer technical requirements.
			  • Given the customer requirements, design the high-level architecture.
			  • Given a customer scenario, explain how a specific technology or solution would meet the customer requirements.
			
			33% Produce a detailed design specification document for a single-site campus environment with less than 1000 employees or subsystems of an enterprise-wide network.
			  • Given a customer scenario, choose the appropriate components that should be included on the BOM.
			  • Given the customer requirements, determine the component details and document the high-level design.
			  • Given a customer scenario, determine and document a detailed network management design.
			  • Given a customer scenario, design and document a detailed network security solution.
			  • Given a customer scenario, design and document the logical and physical network solutions.
			  • Given the customer scenario and service level agreements, document the licensing and maintenance requirements.
			
			8% Recommend the solution to the customer.
			  • Given the customer's requirements, explain and justify the recommended solution.

Percentage of Exam	Passing Score	Number of Questions	Sections/Objectives
33%	70%	20	**Mobility**

20%   Integrate and implement Aruba Mobile First architecture components and explain their uses.
- Integrate components of the Aruba Mobile First Architecture.
- Differentiate between standalone mode and Master Controller Mode (MCM) features and recommend use cases.
- Differentiate the use of packet forwarding modes (tunnel, decrypt-tunnel, split-tunnel, and bridge).
- Differentiate between redundancy methods, and describe the benefits of L2 and L3 clustering.
- Explain Remote Access architectures and how to integrate the architectures.
- Describe and differentiate advanced licensing features.

20%   Configure and validate Aruba WLAN secure employee and guest solutions.
- Configure Remote Access with Aruba Solutions such as RAP and VIA.
- Configure and deploy redundant controller solutions based upon a given design.
- Configure a Mesh WLAN.

38%   Implement advanced services and security.
- Enable multicast DNS features to support discovery across VLAN boundaries.
- Configure role derivation, and explain and implement advanced role features.
- Configure an AAA server profile for a user or administrative access.
- Implement Mobility Infrastructure hardening features.
- Explain Clarity features and functions.
- Implement Voice WLAN based upon a given design.
- Configure primary zones and data zones to support MultiZone AP.
- Implement mobility (roaming) in an Aruba wireless environment.
- Implement tunneled node to secure ArubaOS switches.

10%   Manage and monitor Aruba solutions.
- Use AirWave to monitor an Aruba Mobility Master and Mobility Controller.
- Perform maintenance upgrades and operational maintenance.

12%   Troubleshoot Aruba WLAN solutions.
- Troubleshoot controller communication.
- Troubleshoot the WLAN.
- Troubleshoot Remote Access.
- Troubleshoot issues related to services and security.
- Troubleshoot role-based access, per-port based security and Airmatch.

Percentage of Exam	Passing Score	Number of Questions	Sections/Objectives

33%	70%	20	**Switching**
			
			14% Plan the wired network solution.
			    • Given a scenario with an architect's design and/or customer requirements, identify gaps between the design and customer requirements.
			    • Given a scenario with an architect's design and/or customer requirements, determine an appropriate implementation, monitoring, and management plan.
			
			46% Install and configure the wired network solution.
			    • Given an implementation plan, configure backplane stacking and VSF.
			    • Given an implementation plan, explain how to configure Layer 2 technologies.
			    • Given an implementation plan, explain how to configure and validate Layer 3 interfaces, services, routing protocols and overlays.
			    • Explain multicast features and configuration concepts.
			    • Explain ArubaOS-Switch security features and configuration concepts.
			    • Explain QoS ArubaOS-Switch features and configuration concepts.
			    • Explain mobility integration features and configuration concepts.
			
			27% Troubleshoot the wired network solution.
			    • Given a scenario, identify a failure such as an IP mismatch, VLAN mismatch, hardware failure, or configuration error.
			    • Given an action plan to remediate an issue, determine the implications to the network state.
			    • Given a scenario, determine the cause of the performance problem such as QoS issue, configuration issue with hardware and software, and end node.
			    • Given a scenario, predict the outcome based on the changes to the security configuration.
			    • Given a scenario with an identified security issue, determine the remediation actions.
			
			13% Manage, maintain, optimize, and monitor the wired network solution.
			    • Given a scenario, determine a strategy to implement configuration management (maintenance, auditing, backup, archiving) and to monitor the network.
			    • Analyze data that represents the operational state of a network and determine the appropriate action.

33%	70%	20	**ClearPass** 5% Intro to ClearPass 25% ClearPass for AAA 6% External Authentication 23% Guest 17% Onboard 6% Endpoint Analysis 8% Posture 5% Operations and Admin Users 5% Clustering and Redundancy

Percentage of Exam	Passing Score	Number of Questions	Sections/Objectives

33%	70%	20	**76% Protect and Defend**
			Define security terminology
			    Describe PKI dependencies
			    Mitigate threats by using CPDI to identify traffic flows and apply tags and CPPM to take actions based on tags
			    Explain methods and benefits of profiling
			    Explain how Aruba solutions apply to different security vectors
			    Explain Zero Trust Security in relation to Aruba solutions
			    Explain WIPS and WIDS, as well as describe the Aruba 9x00 Series
			    Describe log types and levels and use the CPPM ingress event engine to integrate with 3rd party logging solutions
			    Explain dynamic segmentation, including its benefits and use cases
			    Explain VPN deployment types and IPsec concepts such as protocols, algorithms, certificate-based authentication with IKE, and reauth intervals
			Device hardening
			    Set up secure authentication and authorization of network infrastructure managers
			    Secure L2 and L3 protocols
			Secure WLAN
			    Deploy AAA for WLANs with ClearPass Policy Manager (CPPM)"
			    Define and apply advanced firewall policies (appRF, PEF, WIPS, WebCC, UTM)
			    Set up integration between the Aruba infrastructure and CPPM, allowing CPPM to take action in response to events
			    Configure rogue AP detection and mitigation
			Secure wired AOS-CX
			    Deploy AAA for wired devices with CPPM
			    Configure 802.1x Authentication for AP
			    Deploy dynamic segmentation
			    Deploy certificate-based authentication for users and devices
			    Set up integration between the Aruba infrastructure and CPPM, allowing CPPM to take action in response to events
			Secure the WAN
			    Understand that Aruba SD-Branch automates VPN deployment for the WAN
			    Design and deploy remote VPN with VIA
			Endpoint classification
			    Deploy and apply endpoint classification to the device
			    Define endpoint classification methodology using active and passive methods
			    Define, deploy, and integrate ClearPass and CPDI
			23% Analyze
			Threat detection
			    Investigate Central alerts
			    Interpret packet captures
			    Recommend action based on the analysis of the Central alerts
			    Evaluate endpoint posture
			Troubleshooting
			    Deploy and analyze Network Analytic Engine (NAE) scripts for monitoring and correlation
			    Perform packet capture on Aruba infrastructure locally and using Central
			Endpoint classification
			    Analyze endpoint classification data to identify risk
			    Analyze endpoint classification data on CPDI
			1% Investigate
			Forensics
			    Explain CPDI capabilities for showing network conversations on supported Aruba devices

For more information

Contact our program

Information is as of May 2023, Revision 3