

# **Aruba Certified Design Expert Written Exam**

### Exam description

This exam validates candidates' knowledge, skills, and ability to analyze a customer's complex, enterprise-level, wired and wireless campus, branch, and remote networking requirements, create an architectural solution design and integrate the design components.

#### Ideal candidate for this exam

An ideal candidate has advanced design experience with Aruba solutions. The candidate is able to identify key decision makers and interview them to determine the customer's business requirements. The candidate synthesizes this information and uses it to formulate statements that accurately describe the customer's general connectivity, availability, security, and application requirements in order to design and integrate the solution.

#### Exam contents

This exam has 60 questions. Here are types of questions to expect.

- Multiple choice (multiple responses), scenario based
- Multiple choice (single response), scenario based
- Multiple choice (multiple responses)
- Multiple choice (single response)
- Scenarios with multiple questions

Exam ID	HPE6-A80
Exam type	Proctored
Exam duration	2 hours
Exam length	60 questions
Passing score	73%
Delivery languages	English

Register for this Exam

You need an HPE Learner ID and a Pearson VUE login and password.

Passing the HPE6-A80 Aruba Certified Design Expert Written Exam is required before registering for the practical exam.

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.

#### Advice to help you take this exam

- · Complete the training and review all course materials and documents before you take the exam.
- Use HPE Press study guides and additional reference materials.
- 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**

This exam validates that you can:

Percentage of Exam	Sections/Objectives
9%	Gather and analyze data, and document customer requirements.  • Given an outline of a customer's needs for a complex multi-site, multi-vendor environment, determine the information required to create a solution.
20%	<ul> <li>Evaluate the requirements, and select the wired and wireless networking technologies for the design.</li> <li>Given a scenario, evaluate the customer requirements for a complex multi-site, multi-vendor environment to identify gaps per a gap analysis and select components based on the analysis results.</li> <li>Given a scenario, translate the business needs of a complex multi-site, multi-vendor environment into technical customer requirements.</li> </ul>
33%	Plan and design an Aruba solution per the customer requirements.  • Given a scenario, select the appropriate products based on the customer's technical requirements for a complex multisite, multi-vendor environment (complex integration).  • Given the customer requirements for a complex multi-site multi-vendor environment, design the high-level architecture.  • Given a customer scenario, explain how a specific technology or solution would meet the customer's requirements.
30%	<ul> <li>Produce a detailed design specification document. (Network design, Visio diagram, RF plan)</li> <li>Given a customer scenario for a complex multi-site, multi-vendor environment, choose the appropriate components that should be included in the BOM.</li> <li>Given the customer requirements for a complex multi-site multi-vendor environment, determine the component details and document the high-level design.</li> <li>Given a customer scenario for a complex multi-site multi-vendor environment, determine and document the detailed network management design.</li> <li>Given a customer scenario for a complex multi-site, multi-vendor environment, design and document a detailed network security solution.</li> <li>Given a customer scenario, design and document the branch access solution.</li> <li>Given a customer scenario of a complex multi-site, multi-vendor environment, design and document the logical and physical network solutions.</li> <li>Given the customer scenario and service level agreements, document the licensing and maintenance requirements. (Note: These will be line items in BOM [Service packs, subscriptions, uptime scenarios].)</li> </ul>
8%	Recommend the solution to the customer.  • Given the customer's requirements, explain and justify the recommended solution.

## Sample questions

Sample questions are provided only as examples of question style, format and complexity/difficulty. They do not represent all question types and do not reflect all topic areas. These sample questions do not represent a practice test.

- 1. A hospital has medical staff who use wireless voice communicator badges. What is one requirement for the wireless network?
  - a. a strong signal to support voice everywhere in the site, including stairwells and walkways
  - b. deployment of APs in hallways instead of rooms to better support roaming users
  - c. deployment of APs in the 2.4GHz band, which is favored by most communicators
  - d. use of 80 MHz channels to support the high bandwidth requirements of the communicators
- 2. Refer to the exhibit.
  - a. The AP uses 5GHz on both of its radios.
  - b. The AP supports highly-critical wireless devices.
  - c. The AP needs higher bandwidth than a Smart Rate port can provide.
  - d. The AP connects to a PoE switch, which can only provide 15W on each port.
- 3. A customer has an Aruba solution with APs, MCs, an MM, and AOS-Switches. The customer wants a solution that will provide capabilities such as detection of hackers compromising legitimate accounts, exfiltrating data, using phishing to gain access to the network, and escalating their privileges to take command and control.

  Which solution should the architect recommend?
  - a. IntroSpect Standard

- b. IntroSpect Advanced
- c. ClearPass Policy Manager
- d. ClearPass OnGuard
- 4. A customer has an Aruba solution with Aruba 335-APs, Aruba 2930M access layer switches, Aruba 7210 Mobility Controllers (MCs), and a Mobility Master (MM). The company policies require rogue AP detection and containment. It is important for the company that the solution can quickly detect the rogue APs and take uninterrupted action to contain the AP from sending traffic.

Which plan meets the customer needs?

- a. Set up the existing APs as hybrid Air Monitors (AMs), and enable tunneled-node on the switches.
- b. Deploy a Cape Networks solution with dedicated sensors.
- c. Set up the existing APs as hybrid Air Monitors (AMs), and also deploy dedicated Spectrum Monitors (SMs).
- d. Deploy new APs as dedicated Air Monitors (AMs).
- 5. A customer has already upgraded the wireless services for several buildings at a campus with an Aruba network, which has 250 APs and 6500 wireless clients. The network core currently has a cluster of two MC 7210s.

Now the customer needs a wireless upgrade at another building on the campus, which is connected to the network core with 8 strands of SM fiber at a distance of 1800 feet (550 m). This building has its own local data center and Internet connection. The company would like it to be able to operate completely autonomously if its aggregation layer loses connectivity with the core.

The architect has determined that this building has 1000 wireless clients and will require 35 APs.

The architect recommends two new MC 7030 to be deployed at the aggregation layer in the building, rather than the network core. What justifies this recommendation?

- a. The existing MCs cannot support the load alone after the addition of the new APs.
- b. The existing MCs cannot support the load alone after the addition of the new clients.
- c. The new building is too far away from the network core for AP-to-MC connections.
- d. The local MCs are required to support autonomous operation despite link failures.

#### **Answers**

This section provides answers to and references for the sample questions.

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## For more information

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