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Cisco 300-425 certification exam tests the candidate's knowledge of wireless network design principles and best practices, as well as their ability to configure and troubleshoot wireless network infrastructure. 300-425 exam also covers topics such as network management, site surveys, and wireless network security. Candidates who Pass 300-425 Exam will have demonstrated their ability to design and deploy secure, scalable, and reliable wireless networks in large organizations.

>> 300-425 Preparation <<

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Cisco 300-425 Certification Exam is part of the Cisco Certified Network Professional (CCNP) Enterprise certification program, which is a professional-level certification that validates a professional's ability to plan, implement, verify, and troubleshoot local and wide-area enterprise networks. Designing Cisco Enterprise Wireless Networks certification is highly sought after by IT professionals who want to advance their careers in network design and implementation, as the CCNP Enterprise certification is recognized globally as a standard of excellence in the networking industry.

What Are the Topics Tested in Cisco ENWLSD 300-425?

If you want to get the Enterprise Wireless Design certification or CCNP Enterprise by passing the ENWLSD 300-425 exam, you should prepare to demonstrate your skills and knowledge related to the following four major topics:

- Wireless Site Survey
- Mobility

- WLAN High Availability
- Wireless and Wired Infrastructure

The first topic covers approximately 25% of the exam's questions. When studying for it, candidates will learn about how to collect design requirements and how to evaluate different constraints. They will develop advanced skills on how to manage client density, AP type, real-time apps, deployment type, and security. Also, this domain covers information on how to describe material attenuation and how to weigh its effects on their wireless designed network. Besides, applicants should be proficient in performing and analyzing Layer 1, pre-deployment, post-deployment, and predictive site survey. Last but not least, another subtopic included in this section handles the proper utilization of the planning and evaluation tools for the most important network metrics. Candidates will discover how to use Spectrum Analyzer, Ekahau, AirMagnet, and Chanalyzer tools.

The second domain has 25% of the syllabus and focuses on mobility concepts. To manage related questions in the test, candidates need to understand how to design a mobility group following the requirements imposed by different mobility roles. Also, this topic takes examinees through various concepts that will allow them to properly optimize client roaming. Another important element included here is mobility tunneling validation for the data and control path.

The third section emphasizes wired and wireless infrastructure. Its total weight in the exam's content is around 30%. It is the most important topic since knowledge in this sphere helps individuals determine which are the most important physical infrastructure requirements for their business environment, handle AP power, cabling, mounting, grounding, and switch port capacity. They will also know more about determining logical infrastructure conditions. During preparation, candidates will discover how to identify the proper WLC/AP licensing requirements based on the current wireless architecture. If you want to get the passing score from the first attempt, you should also get familiar with radio management design and applying proper design management tools for different types of wireless networks. Another sub-topic included here handles wireless bridging and high-density wireless network design.

The final topic makes one proficient in WLAN high availability. They will learn about high availability design for controllers, Stateful Switchover, Network Availability through LAG, as well as priority and redundancy anchor controller. Besides, the candidates will know how to design high availability networks suitable for APS. In this sub-topic, they will handle AP prioritization and fallback concepts.

Cisco Designing Cisco Enterprise Wireless Networks Sample Questions (Q296-Q301):

NEW QUESTION # 296

During a wireless design all APs are mapped to designated controllers in case of a failure. The controllers are located in the same data center but in different racks. An AP failed over to a controller that was not defined on its High Availability tab. The customer does not want the AP to move back to its defined Cisco WLCs until they manually intervene. What needs to be addressed in the design?

- A. Change the default mobility domain.
- B. Set AP fallback to enabled.
- **C. Set AP fallback to disabled.**
- D. Change the HA SKU secondary unit option.

Answer: C

NEW QUESTION # 297

Refer to the exhibit.



Which two statements about Cisco Prime Infrastructure are true? (Choose two.)

- A. It presents the recommended number of APs for the selected coverage area based on the selections made.
- B. It shows the map editor feature in Cisco Prime Infrastructure.
- C. Planning mode requires a special license in Cisco Prime Infrastructure.
- D. It shows the planning mode feature in Cisco Prime Infrastructure.
- E. Controllers must be synchronized with Cisco Prime Infrastructure for planning mode to work.

Answer: A,D

Explanation:

Use Planning Mode to Calculate Access Point Coverage Requirements

Prime Infrastructure planning mode lets you calculate the number of access points (APs) required to cover an area by placing fictitious APs on a map and viewing the coverage area. Based on the throughput specified for each protocol (802.11a/n or 802.11b/g/n), planning mode calculates the total number of APs required to provide optimum coverage in your network. You can calculate the recommended number and location of APs based on the following criteria:

NEW QUESTION # 298

Based on a wireless network design, an engineer configured a primary and secondary controller for their APs. A power interruption caused the primary Cisco WLC to go down, and, as expected, all APs joined the secondary controller. When the primary controller came back up, all the APs remained joined to the secondary controller. Which approach must the engineer take for the APs to move back to the primary?

- A. Set AP Fallback to Enabled on the secondary controller.
- B. Set AP Fail over Priority to Critical globally.

- C. Set AP Fail over Priority to 4 on each AP.
- D. Set AP Fallback to Enabled on the primary controller.

Answer: D

NEW QUESTION # 299

During a wireless design, why should DFS (Dynamic Frequency Selection) channels be used cautiously?

- A. They are not supported on 802.11ac.
- B. They can cause interference with Bluetooth devices.
- C. They provide less throughput.
- D. They may be subject to radar interference and APs must vacate the channel.

Answer: D

NEW QUESTION # 300

A network engineer is designing a new wireless network. The network needs to have these characteristics:

- support high client concentration 
- optimize client performance
- avoid interference

Which approach should be taken?

- A. Deploy APs near each other for 5 GHz coverage, and disable the 2.4 GHz radios for some APs.
- B. Deploy APs near each other for 2.4 GHz coverage, and disable the 5 GHz radios for some APs.
- C. Deploy APs near each other for 2.4 GHz coverage, and disable the 5 GHz radios for all APs.
- D. Deploy APs near each other for 5 GHz coverage, and enable the 2.4 GHz radios for all APs.

Answer: A

Explanation:

In environments with high client density, deploying APs for 5 GHz coverage is recommended due to the larger number of non-overlapping channels available, which can support higher data rates and client capacity.

Disabling the 2.4 GHz radios on some APs can reduce interference and improve overall network performance.

https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/86/b_Cisco_Wireless_LAN_Controller_Con

NEW QUESTION # 301

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