



CWNP CWAP-404

CWNP Wi-Fi Analysis Certification Questions & Answers

Exam Summary – Syllabus – Questions

CWAP-404

[CWNP Certified Wireless Analysis Professional](#)

60 Questions Exam – 70% Cut Score – Duration of 90 minutes

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Know Your CWAP-404 Certification Well:

The CWAP-404 is best suitable for candidates who want to gain knowledge in the CWNP Wireless Network. Before you start your CWAP-404 preparation you may struggle to get all the crucial Wi-Fi Analysis materials like CWAP-404 syllabus, sample questions, study guide.

But don't worry the CWAP-404 PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the CWAP-404 syllabus?
- How many questions are there in the CWAP-404 exam?
- Which Practice test would help me to pass the CWAP-404 exam at the first attempt?

Passing the CWAP-404 exam makes you CWNP Certified Wireless Analysis Professional. Having the Wi-Fi Analysis certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

CWNP CWAP-404 Wi-Fi Analysis Certification Details:

Exam Name	Wireless Analysis Professional
Exam Code	CWAP-404
Exam Price	\$325 USD
Duration	90 minutes
Number of Questions	60
Passing Score	70%
Recommended Training	CWAP self-paced training kit , Training Class
Exam Registration	PEARSON VUE
Sample Questions	CWNP CWAP-404 Sample Questions
Practice Exam	CWNP Certified Wireless Analysis Professional Practice Test

CWAP-404 Syllabus:

Section	Objectives
Protocol Analysis - 15%	
Capture 802.11 frames using the appropriate methods	<ul style="list-style-type: none"> - Select capture devices <ul style="list-style-type: none"> • Laptop protocol analyzers • APs, controllers, and other management solutions • Specialty devices (hand-held analyzers and custom-built devices) - Install monitor mode drivers - Select capture location(s) - Capture sufficient data for analysis - Capture all channels or capture on a single channel as needed - Capture roaming events
Understand and apply the common capture configuration parameters available in protocol analysis tools	<ul style="list-style-type: none"> - Save to disk - Packet slicing - Event triggers - Buffer options - Channels and channel widths - Capture filters - Channel scanning and dwell time
Analyze 802.11 frame captures to discover problems and find solutions	<ul style="list-style-type: none"> - Use appropriate display filters to view relevant frames and packets - Use colorization to highlight important frames and packets - Configure and display columns for analysis purposes - View frame and packet decodes while understanding the information shown and applying it to the analysis process - Use multiple adapters and channel aggregation to view captures from multiple channels - Implement protocol analyzer decryption procedures - View and use a capture's statistical information for analysis - Use expert mode for analysis - View and understand peer maps as they relate to communications analysis

Section	Objectives
Utilize additional tools that capture 802.11 frames for analysis and troubleshooting	<ul style="list-style-type: none"> - WLAN scanners and discovery tools - Protocol capture visualization and analysis tools - Centralized monitoring, alerting, and forensic tools
Ensure appropriate troubleshooting methods are used with all analysis types	<ul style="list-style-type: none"> - Define the problem - Determine the scale of the problem - Identify probable causes - Capture and analyze the data - Observe the problem - Choose appropriate remediation steps - Document the problem and resolution
Spectrum Analysis - 10%	
Capture RF spectrum data and understand the common views available in spectrum analyzers	<ul style="list-style-type: none"> - Install, configure, and use spectrum analysis software and hardware - Capture RF spectrum data using handheld, laptop-based, and infrastructure spectrum capture solutions - Understand and use spectrum analyzer views <ul style="list-style-type: none"> • Real-time FFT • Waterfall, swept spectrogram, density, and historic views • Utilization and duty cycle • Detected devices • WLAN integration views
Analyze spectrum captures to identify relevant RF information and issues	<ul style="list-style-type: none"> - RF noise floor in an environment - Signal-to-Noise Ratio (SNR) for a given signal - Sources of RF interference and their locations - RF channel utilization - Non-Wi-Fi transmitters and their impact on WLAN communications - Overlapping and non-overlapping adjacent channel interference - Poor performing or faulty radios
Analyze spectrum captures to identify various device signatures	<ul style="list-style-type: none"> - Identify various 802.11 PHYs <ul style="list-style-type: none"> • DSSS • OFDM

Section	Objectives
	<ul style="list-style-type: none"> • OFDMA • Channel widths • Primary channel <p>- Identify non-802.11 devices based on RF behaviors and signatures</p> <ul style="list-style-type: none"> • Frequency hopping devices • IoT devices • Microwave ovens • Video devices • RF Jammers • Cordless phones
Use centralized spectrum analysis solutions	<p>- AP-based spectrum analysis</p> <p>- Sensor-based spectrum analysis</p>
PHY Layers and Technologies - 10%	
Understand and describe the functions of the PHY layer and the PHY protocol data units (PPDUs)	<p>- DSSS (Direct Sequence Spread Spectrum)</p> <p>- HR/DSSS (High Rate/Direct Sequence Spread Spectrum)</p> <p>- OFDM (Orthogonal Frequency Division Multiplexing)</p> <p>- ERP (Extended Rate PHY)</p> <p>- HT (High Throughput)</p> <p>- VHT (Very High Throughput)</p> <p>- HE (High Efficiency)</p> <ul style="list-style-type: none"> • HE SU PPDU • HE MU PPDU • HE ER SU PPDU • HE TB PPDU • HE NULL data packets
Apply the understanding of PHY technologies, including PHY headers, preambles, training fields, frame aggregation, and data rates, to captured data	
Identify and use PHY information provided within	<p>- Pseudo-Header formats</p>

Section	Objectives
pseudo-headers in protocol analyzers	<ul style="list-style-type: none"> • Radiotap • Per Packet Information (PPI) - Key pseudo-header content <ul style="list-style-type: none"> • Guard intervals • Resource units allocation • PPDU formats • Signal strength • Noise • Data rate and MCS index • Length information • Channel center frequency or received channel • Channel properties
Recognize the limits of protocol analyzers to capture PHY information including NULL data packets and PHY headers	
Use appropriate capture devices based on proper understanding of PHY types	- Supported PHYs - Supported spatial streams
MAC Sublayer and Functions - 25%	
Understand frame encapsulation and frame aggregation	- Frame aggregation (A-MSDU and A-MPDU)
Identify and use MAC information in captured data for analysis	- Management, Control, and Data frames - MAC frame formats and contents <ul style="list-style-type: none"> • Frame Control field • To DS and From DS fields • Address fields • Frame Check Sequence (FCS) field - 802.11 Management frame formats

Section	Objectives
	<ul style="list-style-type: none"> • Information Elements • Authentication • Association and Reassociation • Beacon • Probe Request and Probe Response <ul style="list-style-type: none"> - Data and QoS Data frame formats - 802.11 Control frame formats <ul style="list-style-type: none"> • Acknowledgement (ACK) • Request to Send/Clear to Send (RTS/CTS) • Block Acknowledgement and related frames • Trigger frames • VHT/HE NDP announcements • Multiuser RTS
Validate BSS configuration through protocol analysis	<ul style="list-style-type: none"> - Country code - Minimum basic rate - Supported rates and coding schemes - Beacon interval - WMM settings - RSN settings - HT/VHT/HE operations - Channel width - Primary channel - Hidden or non-broadcast SSIDs
Identify and analyze CRC error frames and retransmitted frames	
WLAN Medium Access - 10%	
Understand 802.11 contention algorithms in-depth and know how they impact WLANs	<ul style="list-style-type: none"> - Distributed Coordination Function (DCF) <ul style="list-style-type: none"> • Carrier Sense (CS) and Energy Detect (ED) • Network Allocation Vector (NAV) • Contention Windows (CW) and random backoff • Interframe spacing - Enhanced Distributed Channel Access (EDCA)

Section	Objectives
	<ul style="list-style-type: none"> • EDCA Function (EDCAF) • Access Categories and Queues • Arbitration Interframe Space Number (AIFSN) - Wi-Fi Multimedia (WMM) <ul style="list-style-type: none"> • WMM parameters • WMM-Power Save • WMM-Admission Control
Analyze QoS configuration and operations	- Verify QoS parameters in capture files - Ensure QoS is implemented end-to-end
802.11 Frame Exchanges - 30%	
Capture, understand, and analyze BSS discovery and joining frame exchanges	- BSS discovery - 802.11 Authentication and Association - 802.1X/EAP exchanges - Pre-Shared Key authentication - Four-way handshake - Group key exchange - Simultaneous Authentication of Equals (SAE) - Opportunistic Wireless Encryption (OWE) - WPA2 and WPA3 - Fast secure roaming mechanisms <ul style="list-style-type: none"> • Fast BSS Transition (FT) roaming exchanges • Pre-FT roaming exchanges - Neighbor discovery (802.11k/v) - Hotspot 2.0 protocols and operations from the client access perspective <ul style="list-style-type: none"> • ANQP • Initial access
Analyze roaming behavior and resolve problems related to roaming	- Sticky clients - Excessive roaming - Channel aggregation for roaming analysis
Analyze data frame exchanges	- Data frames and acknowledgement frames - RTS/CTS data frame exchanges

Section	Objectives
	<ul style="list-style-type: none"> - QoS Data frame exchanges - Block Acknowledgement exchanges
Analyze MIMO and multiuser-specific transmission methods	<ul style="list-style-type: none"> - MIMO <ul style="list-style-type: none"> • Transmit Beamforming (TxBF) • MU-MIMO - OFDMA <ul style="list-style-type: none"> • Scheduling and trigger frames
Analyze behavior and solve problems related to MAC layer operations	<ul style="list-style-type: none"> - Power Save operations - Protection mechanisms - Load balancing - Band Steering

CWNP CWAP-404 Sample Questions:

Question: 1

What does ATIM stand for?

- a) Ad Hoc Traffic Indication Message
- b) Announcement Traffic Indication Message
- c) Announcement Traffic Indication Map
- d) Ad Hoc Traffic Indication Map

Answer: b

Question: 2

How wide are the UNII-1, UNII-2, and UNII-3 bands?

- a) 20 MHz
- b) 22 MHz
- c) 11 MHz
- d) 100 MHz
- e) It varies depending upon the specific band.

Answer: d

Question: 3

In which frame would you find a timestamp field?

- a) Beacon
- b) Association request
- c) Association response
- d) Authentication

Answer: a

Question: 4

Where in the packet can you see its access category?

- a) QoS Control Field
- b) WMM Information Element
- c) IP Header
- d) Frame Body

Answer: a

Question: 5

How does a client station indicate that it is using Power Save mode?

- a) It transmits a frame to the access point with the Sleep field set to 1.
- b) It transmits a frame to the access point with the Power Management field set to 1.
- c) Using DTIM, the access point determines when the client station uses Power Save mode.
- d) It doesn't need to, because Power Save mode is the default.

Answer: b

Question: 6

Which of these roaming methods requires the use of FT Action frames?

- a) Over-the-air fast BSS transition
- b) Over-the-WDS fast BSS transition
- c) Over-the-DS fast BSS transition
- d) Over-the-WLS fast BSS transition

Answer: c

Question: 7

Which of the following are protection mechanisms? (Choose two.)

- a) NAV back-off
- b) RTS/CTS
- c) RTS-to-self
- d) CTS-to-self
- e) WEP encryption

Answer: b, d

Question: 8

An MOS score of 4 indicates what level of quality?

- a) Excellent
- b) Good
- c) Fair
- d) Poor
- e) Bad

Answer: b

Question: 9

What is the purpose of link adaptation?

- a) Establishes STA-to-STA communication
- b) Allows a Beamformer to estimate the channel in order to calculate a steering matrix
- c) Performs over-the-air calibration to reduce the differences between a STA's transmit and receive radio chains
- d) Dynamically assigns an MCS

Answer: d

Question: 10

Which type of power management frame is used only in an IBSS?

- a) ATIM
- b) DTIM
- c) CF-Poll
- d) PS-Poll

Answer: a

Study Guide to Crack CWNP Wi-Fi Analysis CWAP-404 Exam:

- Getting details of the CWAP-404 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the CWAP-404 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the CWNP provided training for CWAP-404 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the CWAP-404 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on CWAP-404 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for CWAP-404 Certification

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