200-355

Implementing Cisco Wireless Networking Fundamentals

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SUCCESS GUIDE TO CISCO CERTIFICATION

Exam Summary – Syllabus – Questions

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Introduction to 200-355 Exam on Implementing Cisco Wireless Networking Fundamentals

A great way to start the Cisco Certified Network Associate Wireless (WIFUND) preparation is to begin by properly appreciating the role that syllabus and study guide play in the Cisco 200-355 certification exam. This study guide is an instrument to get you on the same page with Cisco and understand the nature of the Cisco CCNA Wireless exam.

Our team of experts has composed this Cisco 200-355 exam preparation guide to provide the overview about Cisco Implementing Cisco Wireless Networking Fundamentals exam, study material, sample questions, practice exam and ways to interpret the exam objectives to help you assess your readiness for the Cisco WIFUND exam by identifying prerequisite areas of knowledge. We recommend you to refer the simulation questions and practice test listed in this guide to determine what type of questions will be asked and the level of difficulty that could be tested in the Cisco CCNA Wireless certification exam.

Cisco 200-355 Certification Details:

Exam Name	Implementing Cisco Wireless Networking Fundamentals
Exam Number	200-355 WIFUND
Exam Price	$300 USD
Duration	90 minutes
Number of Questions	60-70
Passing Score	Variable (750-850 / 1000 Approx.)
Recommended Training	Implementing Cisco Wireless Network Fundamentals (WIFUND) Implementing Cisco Wireless Network Fundamentals (WIFUND) E-Learning Defining Cisco Wireless LAN Essentials (WLE) E-Learning
Exam Registration	PEARSON VUE
Sample Questions	Cisco 200-355 Sample Questions
Practice Exam	**Cisco Certified Network Associate Wireless Practice Test**

Cisco 200-355 Exam Syllabus:

Section	Weight	Objectives
RF Fundamentals	13%	1 Describe the propagation of radio waves a) Frequency, amplitude, phase, wavelength (characteristics) b) Absorption, reflection, diffraction, scattering, refraction, fading, free space path loss, multipath 2 Interpret RF signal measurements a) Signal strength (RSSI, Transmit power, receive sensitivity) b) Differentiate interference vs. noise c) Device capabilities (smartphones, laptops, tablets) d) Define SNR 3 Explain the principles of RF mathematics a) Compute dBm, mW, Law of 3s and 10s, 4 Describe Wi-Fi antenna characteristics a) Ability to read a radiation pattern chart b) Antenna types and uses c) dBi, dBd, EIRP
802.11 Technology Fundamentals	13%	1 Describe basic Wi-Fi governance a) Describe regional regulatory bodies (such as, FCC / ETSI/ NTT) b) IEEE 802.11 c) Wi-Fi Alliance 2 Describe usable channel and power combination a) Regional EIRP limitation examples b) ISM, UNII frequency bands c) Describe RRM fundamental(s) 3 Describe 802.11 fundamentals a) Modulation techniques b) Channel width c) MIMO / MU-MIMO c (i) MRC c (ii) Beam forming c (iii) Spatial streams d) Wireless topologies d (i) IBSS d (ii) BSS d (iii) ESS e) Frame types e (i) Management e (ii) Control

Section	Weight	Objectives
		e (iii) Data
Implementing a Wireless Network	16%	1 Describe the various Cisco wireless architectures a) Cloud b) Autonomous c) Split MAC c (i) FlexConnect c (ii) Centralized c (iii) Converged 2 Describe physical infrastructure connections a) Wired infrastructures (AP, WLC, access/trunk ports, LAG) 3 Describe AP and WLC management access connections a) Management connections (Telnet, SSH, HTTP, HTTPS, console) b) IP addressing: IPv4 / IPv6 c) Management via wireless
Operating a Wireless Network	20%	1 Execute initial setup procedures Cisco wireless infrastructures a) Cloud b) Converged c) Centralized d) Autonomous 2 Describe the Cisco implementation of the CAPWAP discovery and join process a) DHCP b) DNS c) Master-controller d) Primary-secondary-tertiary 3 Distinguish different lightweight AP modes 4 Describe and configure the components of a wireless LAN access for client connectivity using GUI only 5 Identify wireless network and client management and configuration platform options a) Controller GUI and CLI b) Prime infrastructure c) Dashboard d) ISE 6 Maintain wireless network a) Perform controller configuration backups

Section	Weight	Objectives
		b) Perform code updates on controller, APs, and converged access switches b (i) AireOS: boot loader (FUS), image b (ii) IOS-XE: bundle, unbundle b (iii) Autonomous
Configuration of Client Connectivity	16%	1 Identify authentication mechanisms a) LDAP, RADIUS, local authentication, WebAuth, 802.1X,PSK 2 Configuring WLAN authentication mechanisms on the controller a) WebAuth, 802.1X, PSK b) TKIP deprecation 3 Configure client connectivity in different operating systems a) Android, MacOS, iOS, Windows 4 Describe roaming a) Layer 2 and Layer 3 b) Intracontroller and intercontroller c) Centralized mobility d) Converged mobility 5 Describe wireless guest networking a) Anchor controller b) Foreign controller
Performing Client Connectivity Troubleshooting	13%	1 Validating WLAN configuration settings at the infrastructure side a) Security settings b) SSID settings 2 Validating AP infrastructure settings a) Port level configuration b) Power source c) AP and antenna orientation and position 3 Validate client settings a) SSID b) Security c) Device driver version 4 Employ appropriate controller tools to assist troubleshooting a) GUI logs b) CLI show commands c) Monitor pages c (i) CleanAir (controller GUI)

Section	Weight	Objectives
		5 Identify appropriate third-party tools to assist troubleshooting a) OS-based Client utilities b) Wi-Fi scanners c) RF mapping tool
Site Survey Process	9%	1 Describe site survey methodologies and their purpose a) Offsite (predictive / plan) b) Onsite b (i) Predeployment (AP on a stick) b (ii) Post deployment (validation) 2 Describe passive and active site surveys 3 Identify proper application of site survey tools a) Spectrum analyzer b) Site surveying software 4 Describe the requirements of client real-time and non-real-time applications

200-355 Sample Questions:

01. Which statement best describes scattering of a signal?
a) Loss of signal as it passes through an object
b) A wave passing from one medium to another
c) Encroachment into the Fresnel Zone
d) Reflection of a signal in the air causing it to be sent it multiple directions

02. Which of the following represents the best Signal to noise ratio (SNR)?
a) RSSI of -95 and Noise of -95
b) RSSI of -50 and Noise of -25
c) RSSI of -70 and noise of -95
d) RSSI of -25 and noise of -10

03. Which of the following is the correct sequence for data transmission on a WLAN?
a) RTS – CTS – DATA – ACK
b) CTS – RTS – ACK – DATA
c) ACK – RTS – CTS – DATA
d) Probe – Probe Response – DATA—ACK

04. Beacon frames contain which of the following
(Choose 3)
a) Supported rates
b) Supported SSIDs
c) Time stamp
d) Encryption key
e) Keep alive time

05. Switch ports to access points should be configured as?
(Choose 3)
a) Switchport mode trunk
b) Switchport mode access
c) Spanning Tree – PortFast enabled
d) Spanning Tree – PortFast disabled

06. Switch ports to WLAN controllers should be configured as?
(Choose 2)
a) Switchport mode access
b) Switchport mode trunk
c) Spanning Tree – PortFast disabled
d) Spanning Tree – PortFast enabled

07. What does DHCP option 43 provide for in a Cisco WLAN?
a) DNS server name
b) DNS domain name
c) Advertise WLC addresses
d) Default gateway

08. When using WPA2 with PSK, how many keys can be configured per WLAN?
a) 1 ASCII or 1 Hex
b) 2 ASCII and 2 Hex
c) 4 ASCII and 4 Hex
d) 2 ASCII and 1 Hex

09. Which of the following are correct regarding troubleshooting methodology?
(Choose 2)
a) Bottom-up starts at the physical layer
b) Bottom-up starts at the application layer
c) Top-down starts at the application layer
d) Top-down starts at the physical layer

10. The typical Site Survey process requires the following steps?
(Choose 3)
a) Pre-deployment Site Survey
b) Initial walkthrough
c) Predictive WLAN design
d) Indirect Site Survey
e) Post Deployment Site Survey

Answers to 200-355 Exam Questions:

Question: 01 Answer: d	Question: 02 Answer: c	Question: 03 Answer: a	Question: 04 Answer: a, b, c	Question: 05 Answer: a, b, c
Question: 06 Answer: b, c	Question: 07 Answer: c	Question: 08 Answer: a	Question: 09 Answer: a, c	Question: 10 Answer: a, b, e

Note: If you find any typo or data entry error in these sample questions, we request you to update us by commenting on this page or write an email on feedback@nwexam.com