
Certified Wireless Technology Specialist

Duration: 4 Days Course Code: CWTS

Overview:

This certification is ideal for Sales Managers, non-technical Engineering Team Managers, and those beginning their careers in Wireless Networking.

The training for this certification provides a solid foundation in Wireless Networking and gives a high-level overview of the field. The concepts which can be learned in this class will act as a firm foundation upon which to build future knowledge.

This course introduces topics such as basic RF theory in an easy-to-understand format, regulatory requirements, and explains the methodology for implementation of WLAN devices. This course focuses on introducing Wi-Fi professionals to the latest in 802.11 technologies.

If the student is considering entering into or advancing within the wireless networking industry, this course will provide a solid foundation in Wireless Networking.

This class is the first in the series of CWNP certification classes which can lead to the prestigious CWNE – Certified Wireless Networking Expert – designation!

Main Areas Covered by CWTS:

- Basic Radio Frequency (RF) Theory
 - Regulatory Requirements
 - 802.11 Technologies
-

Objectives:

- Understand basic RF theory
 - Understand the methodology for implementation of WLAN devices
 - Define applicable regulatory requirements
 - Describe the latest 802.11 technologies
-

Prerequisites:

None

Testing and Certification

CWNP PW0-071 CWTS

Proctored Exam 90 minutes (60 questions: multiple choice / multiple answer)

Exam Proctor: PearsonVUE

Recertification: none. This is a "lifetime" certification. No expiration.

NOTE: the CWTS exam will be permanently retired in December 2018. ALL CWTS exams must be taken by this time. CWTS will be replaced by CWS (sales team focus) and CWT (technical focus). (More details about these classes, to come.)

Content:

Module 1 – Introduction to Networking

- Network Types
- Network Topologies
- OSI Model
- Device Addressing

Module 2 – Introduction to WiFi

- Where WiFi is Used
- Organizations Governing WiFi
- IEEE Standards

Module 3 – WiFi Infrastructure and Client Devices

- Access Points
- WLAN Controllers
- Wireless Bridges
- Wireless Repeaters
- Power over Ethernet (PoE)
- Client Devices / Software

Module 4 – WiFi Terminology and Operation

- WiFi Modes of Operation
- Service Set Naming
- Client Association and Roaming Process
- Power Save Fundamentals
- Data Rates

Module 5 – Radio Frequency Fundamentals

- RF Wave Fundamentals
- Frequency Fundamentals
- RF Characteristics
- RF Interference
- Power Measurement
- WiFi Channels

Module 6 – Antennas and Accessories

- Antenna Function
- Antenna Types
- Line of Sight
- Polarization
- Antenna Diversity
- WiFi System Accessories

Module 7 – Under The Hood

- Medium Access and Collision Avoidance
- Modulation
- Mixed Mode Environments and Protection Mechanisms
- Coexistence with RF Interference

Module 8 – RF Site Surveys

- Purposes of an RF Site Survey
- RF Site Survey Types
- Steps Involved in the RF Site Survey Process

Module 9 – WiFi Security

- Understand WiFi Security Needs
- Legacy Security
- WiFi Protected Setup (WPS)
- Security Terminology
- WPA2-Personal, WPA2-Enterprise, and Encryption
- Advanced Security Options
- Compliance
- Best Practices

Module 10 – WiFi Troubleshooting

- Troubleshooting Tools
- Common WiFi Problems

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

training@globalknowledge.com.eg

www.globalknowledge.com/en-eg/

Global Knowledge, 16 Moustafa Refaat St. Block 1137, Sheraton Buildings, Heliopolis, Cairo