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## Certified Wireless Technician

**Duration: 1 Day    Course Code: CWT    Version: 101**

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### Overview:

This CWT course provides a technical introduction to 802.11 / Wi-Fi networks, including equipment configuration, installation and testing; and prepares attendees for the CWT on-line exam and certification. This entry-level technical course covers the essentials of Wi-Fi network operation - including Radio Frequency (RF) essentials, WLAN antennas, RF Channels, WLAN clients, Wi-Fi access point configuration, mounting, testing and management.

The Certified Wireless Technician (CWT) is an individual who can install APs based on a design document, configure the AP for initial operations and ensure connectivity. The individual can troubleshoot basic problems and assist users in-person or through remote communications in problem resolution. The ability to configure a WLAN client for connectivity is paramount with an understanding of the configuration process for SSIDs, security settings and other client adapter settings.

This individual is not responsible for WLAN design, analysis or security design; however, the CWT should be able to gather information from a design specification document to properly configure an AP and troubleshoot individual connection issues. The CWT may not be aware of the actual WLAN architectural design, the RF design or the full feature set in use to implement the WLAN.

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### Target Audience:

People responsible for configuring or installing Wi-Fi access points and other wireless products. Technical support staff supporting Wi-Fi network users. People responsible for testing and troubleshooting basic Wi-Fi client connectivity. People wanting to take the Certitrek Certified Wireless Specialist (CWT) on-line certification exam.

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### Objectives:

- After completing this course, you will be able to:
  - Understand the configuration process for SSIDs, security settings and other client adapter settings.
  - Configure a WLAN client for connectivity.
  - Gather information from a design specification document.
  - Properly configure and install Wi-Fi access points.
  - Troubleshoot basic Wi-Fi connection problems and help users regain network connectivity.
  - Prepare for the Certified Wireless Technician (CWT) on-line certification exam.
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### Prerequisites:

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### Testing and Certification

This CWT course prepares attendees for the CWT-101 Certified Wireless Technician (CWT) exam.

The CWT certification is an entry-level WLAN certification from the vendor-neutral CWNP organization that brought you CWNA and other advanced certifications. To earn the CWT certification, you must pass an online exam with a score of 70% or higher. Those desiring to work as instructors teaching CWT classes must pass with a score of 80% or higher. Regardless of the way you choose to prepare for the CWT exam, you should start with the exam objectives, which cover the full list of knowledge tested on the exam. The CWT is a three-year certification, and it is renewed by passing the most recent version of the CWT exam again.

Primary Knowledge Domains of the CWT Exam:

- Understand Basic RF Hardware and Functions - 15% of exam
  - Identify 802.11 Features and Functions - 30% of exam
  - Identify Wireless LAN Hardware and Software - 30% of exam
  - Understand Organizational Goals - 25% of exam
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## Content:

### Radio Frequency (RF) Fundamentals

- Describe RF Signal Characteristics
- Explain RF behaviors and signal propagation
- Understand how to detect RF signal factors

### Antennas and Accessories

- Describe the basic differences among antenna types
- Select the appropriate external antenna when required

### 802.11 Channels and Operations

- Create basic RF channel plans
- Explain the basic WLAN location process
- Describe the basic steps required in the WLAN connection process
- Determine the channels and streams supported by client devices

### WLAN Clients: Features and Capabilities

- Describe client types and varying capabilities
- Determine the channels and streams supported by client devices

### WLAN Clients: Configuration and Management

- Configure client devices

### WLAN APs: Hardware and Mounting

- Identify AP features and capabilities and understand configuration options related to them
- Select appropriate mounting kits for a specified installation location
- Ensure proper PoE provisioning when required

### WLAN APs: Configuration and Management

- Configure APs as standalone devices
- Validate AP wired interface connectivity
- Validate proper AP WLAN configuration

### WLAN Security

- Understand the basics of 802.11 security solutions
- Identify legacy security technologies that should not be used
- Configure security parameters in an AP
- Configure security parameters in a client device

### Troubleshooting Connection Issues

- Troubleshoot connectivity problems
- Troubleshoot performance problems
- Troubleshoot security problems
- Troubleshoot mobility problems

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## Additional Information:

The official CWT courseware will be used during the course.  
Global Knowledge is a CWNP Authorized Learning Center.

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## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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[www.globalknowledge.com/en-be/](http://www.globalknowledge.com/en-be/)