Wireless Training

CWAP: Certified Wireless Analysis Professional

$3,195.00

- 4 Days

Upcoming Dates

Course Description

For those who are skilled at analyzing and troubleshooting today's wireless LANs, the Certified Wireless Analysis Professional (CWAP) certification offers an opportunity to leap forward in your career.

Do you have a mastery of operation and frame exchanges? Can you perform protocol and spectrum analyses? Are MAC layer frame formats right in your wheelhouse?

Measure your skills and knowledge with this professional-level certification and get on track toward ultimately earning your Certified Wireless Network Expert (CWNE) certification. Those that pass the CWAP exam earn credit towards a CWNE certification.

Course Outline

Module 1 – Troubleshooting Processes

- Troubleshooting Methodologies
- CWNP Methodology
- Troubleshooting Tools

Module 2 – Communications

- Terminology Review
- Beacon Frames
- Authentication
- Channel Access
- WLAN Architectures

Module 3 – 802.11 Frames

- Framing Review
- 802.11 General Frame Format
- 802.11 Frame Types
- Important 802.11 Frames

- Security Communications
- 802.11 PHY

Module 4 – WLAN Hardware

- Client Devices
- Access Points
- WLAN Controllers and Managers
- Wireless Analysis Hardware
- Wired Hardware

Module 5 – Protocol Analysis

- WLAN Protocol Analysis Hardware and Software
- Protocol Analyzer Common Features
- Working with Protocol Analyzers

Module 6 – Spectrum Analysis

- Spectrum Analysis Hardware
- Terminology
- Spectrum Analyzer Features
- Installing and Configuring
- Performing Spectrum Analysis

Module 7 – Wired Issues

- Common Problems
- Troubleshooting Tools
- Troubleshooting Specific Issues

Module 8 – Common WLAN Issues

- Common Issues
- Security Issues
- Client Issues
- Modern Issues

Audience

Prerequisites

Certified Wireless Network Administrator

What You Will Learn

- Understanding the 802.11 Physical (PHY) Layer Frame Formats and Technologies

- Understanding the 802.11 MAC Layer Frame Formats and Technologies
- Understanding of 802.11 Operation and Frame Exchanges
- Understanding Advanced Features of Spectrum Analysis
- Understand Data Collection Methods
- Become Proficient at Protocol Analysis and Troubleshooting