



Certified Wireless Analysis Professional (CWAP)

COURSE OVERVIEW

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.

PREREQUISITES

Certified Wireless Network Administrator

COURSE OBJECTIVES

- 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

COURSE OUTLINE

Module 1 – Troubleshooting Processes

- Troubleshooting Methodologies
- CWNP Methodology
- Troubleshooting Tools

Module 2 – Communication

- 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

WHY TRAIN WITH SUNSET LEARNING INSTITUTE?

Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their technology Investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!



Premiere World Class Instruction Team

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience

- You have the option to attend classes live with the instructor, at any of our established training facilities, or from the convenience of your home or office
- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

Outstanding Customer Service

- You will work with a dedicated account manager to suggest the optimal learning path for you and/or your team
- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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