CWNP Certifications

CWNA

Study Suggestions

- Focus on:
  - RF industry
  - RF behavior and math
  - WLAN hardware
  - WLAN management features

Lab Suggestions

- AP with advanced features
  - Cisco WAP371 is a good home lab choice – 802.11ac
    - 3 would be nice for lab setup
  - Aruba RAP155p, more expensive, unless you're here – 802.11n
- Hawking HD45U adapter (802.11n)
  - Will announce 11ac adapters as they become available
    - Edimax AC-1200 works in CommView now!
- Trial of CommView, AirMagnet and OmniPeek
  - Can use Wireshark on Kali Linux

CWSP

Study Suggestions

- Threats and vulnerabilities

- Authentication

- Encryption

- Monitoring

- Future: Auditing

Lab Suggestions

- AP with rogue AP detection
  - Same 3 WAP371 APs will get you through all home labs

- Kali Linux

- FreeRADIUS

- Multiple clients
  - Windows
  - OS X
  - Linux
  - Mobile

CWDP

Study Suggestions

- Site survey
- WLAN design
  - RF design
  - Security design
- WLAN architectures in detail
- Understand hardware specs
  - APs
  - Clients
  - Antennas
- Future: MDM; more on capacity planning

Lab Suggestions

- 3+ APs
- Site survey software
- Protocol analyzer
- Spectrum analyzer

CWAP

Study Suggestions

- MAC and PHY frames and features
- MAC and PHY logical operations
- Spectrum analysis
- Protocol analysis
- Future: More scenario-based troubleshooting

Lab Suggestions

- Equipment to create mixed environment
  - 802.11ac AP with 11ac, 11n, 11a/b/g clients
  - 802.11n AP with 11ac, 11a/b/g clients
- Protocol analyzer
- Spectrum analyzer

CWNE

- Meeting the experience requirements

- Writing your essay

- Meeting the publishing requirements

Questions